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BULLETIN OF

The University of Georgia

Vol. LX, No. 8 March 16, 1960

General Catalogue

Register for 1959-1960

Announcements for 1960-1961

Athens, Georgia

SUMMER 19

BULLETIN OF THE UNIVERSITY OF GEORGIA

60 SESSIONS

BULLETIN

OF

THE UNIVERSITY OF GEORGIA

Schedule of Classes

Volume LX No. 7 January 15, 1960

Summer Calendar, 1960

First Term, June 13-July 21

June 13	Registration - All students. Hours 8-12:30, Stegeman Hall. Fees may be paid in envelopes until 9:00 a.m. June 14, at Treasurer's Office.
June 14	Classes begin.
June 18	Final date for filing application for August graduation.
July 4	Holiday.
July 7	Examinations on the United States and Georgia Constitutions, Room 212, Academic Building, 3:30 p.m.
July 14	Language Reading Knowledge Tests. Register with Modern Language Department by June 25.
July 15--16	Graduate Record Examination. Register with Dean of Graduate School by June 25.
July 19	Classes end.
July 20-21	Examinations.

Second Term, July 25-August 18

July 25	Registration. Hours 8-12 - Offices of Dean. Fees may be paid in envelopes until 9:00 a.m. July 26, at Treasurer's Office.
July 25	Classes Begin 2:00 p.m.
July 29	Last Day for filing gradute thesis for August graduation.
August 16	Classes end.
August 16-17	Examinations.
August 18	Graduation.

FALL QUARTER

Sept. 18-24	Orientation Week.
Sept. 22-23	Registration.
Sept. 26	Classes Begin.

Schedule of Class Hours

Classes will meet five days per week with sixth day used for conferences. Five hour classes meet two periods a day and three hours classes one period a day. Students will be limited to eleven hours of class work the first term and six hours the second term.

Class Hours First Term

First Period	8:00 - 8:50	Sixth Period	1:30 - 2:20
Second Period	9:00 - 9:50	Seventh Period	2:30 - 3:20
Third Period	10 :00 -10:50	Eighth Period	3:30 - 4:20
Fourth Period	11:00 -11:50	Ninth Period	4:30 - 5:20
Fifth Period	12:00 -12:50	Tenth Period	5:30 - 6:20

Class Hours Second Term

First Period	8:00 - 9:15	Fourth Period	2:00 - 3:15
Second Period	9:30 -10:45	Fifth Period	3:30 - 4:45
Third Period	11:00 -12:15	Sixth Period	5:00 - 6:15

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Serial No. 1185

1960 SUMMER QUARTER

Registration Procedure

First Term - June 13 Second Term - July 25

See Calendar - Inside Front Cover

Students who have been formally accepted and those who have attended the Athens Campus of the University of Georgia since September, 1958, report directly to Stegeman Hall for registration; except law students who will report to the Law School and Veterinary Medicine students who report to the Vet. Med. Building. Former students who have not been in attendance since the Summer of 1958 should advise the Registrar that they plan to attend so that fee and name cards will be at Stegeman Hall.

A. Steps in Registering after you enter Stegeman Hall.

1. Report to the table of your Academic Dean, or to your major professor for schedule counseling. The responsibility of choosing correct subjects is yours, not the Dean's.

2. After approval of your schedule go to a tablet arm chair and fill in completely all four sections of the registration card supplied you by your Dean or major professor. Have your Dean approve the Registrar's section of this registration card.

3. Report to the sectioning tables and get a class card for each course on your schedule.

4. Fee cards and orange name cards for all students in attendance since September, 1958 will be at stations in the east end of Stegeman Hall. Get <u>your</u> fee card and orange name card.

5. Report to the fee and schedule checkers. These stations are located at the east end of Stegeman Hall for the College of Arts and Sciences <u>and</u> the College of Business Administration. For the other schools and colleges, these stations are located adjacent to the Dean of the School or College.

   At these stations you will:

   (1.) Turn in the 3 lower sections of your schedule card.
   (2.) Put your orange name card <u>in front</u> of your class cards and give them to the schedule checkers.
   (3.) Have fees properly assessed and fee card stamped "Cleared Registrar."
   (4.) Get fee envelope.

B. Steps in Registering After you Leave Stegeman Hall.

1. All Students - Veterans and Non-Veterans.

   a. Report for dormitory assignment if you are to reside in a dormitory. Men will report to Room 308, Old College. Women will report to Room 218, Academic Building.

   b. Follow instructions on fee envelope in paying fees at Treasurer's Office.
   Late fees of $5.00 to $9.00 will be charged after 9:00 a.m. June 14, for first term and after 9:00 a.m. on July 26 for second term.

   c. Purchase your books at the University Book Store - Student Union

2. Veteran Students.

   a. Report to the Veterans Division in Lumpkin House on Lumpkin Street.

C. Second Term Registration on July 25 - Hours 8-12.

Students will make out program in the office of his Dean; go to instructor of course and secure class card; check and pay fees at Academic Building. Veteran students report to Veterans Division. (Fee cards of students enrolled first term will be on front porch of Academic Building.)

ADMISSION

Applications of candidates who have never attended the University of Georgia must be filed with the Director of Admissions by May 25, for first term and July 5 for second term.

The minimum entrance requirement is 16 high school units.
(See General Catalogue).

Students planning to transfer to the University with advanced standing should file application and furnish to Director of Admissions complete transcripts of previous work. A personal interview is required before admission is granted.

Students planning to enter Graduate School should apply directly to the Dean of the Graduate School. Two complete copies of transcript are required.

Students of other institutions who desire to attend the University of Georgia for the Summer Session only will be admitted upon certificate of their Registrar or Dean, in lieu of transcript

Students taking any course work during the first term must register on June 13.

TEACHER CERTIFICATION

The College of Education, in cooperation with other schools and colleges of the University provides planned programs leading to a four year professional certification in the following fields: Agriculture, public school art, elementary school, secondary school, home economics, public school music, health and physical education, industrial arts, teacher librarian, business education, and distributive education.

The Graduate division of the College provides planned programs for the five-year professional certificate in all of the above listed fields except teacher-librarian. Five year programs are also provided for superintendents, supervisors, principals, counselors, psychologists, visiting teachers and other educational specialists.

Planned programs at the six year level are provided, also programs for junior college teaching.

Programs leading to the Doctor of Education degree are available. Details given in Graduate School Bulletin.

LAST DAY FOR REGISTERING FOR CREDIT

During the first Summer term, a student will not be admitted to the University later than June 17, except under extraordinary circumstances. The last date for entering the Second Summer term is July 27.

LATE REGISTRATION FEES

Students who register after June 13, for the first Summer term will be assessed a late registration fee of $5.00 for the first day and $2.00 a day for each additional day to a maximum of $9.00. For the second term, the maximum late registration fee will be $7.00.

FEES

	Resident	Non-Resident
Professional Law		
Full Summer Quarter	77.50	177.50
Professional Veterinary Medicine		
Full Summer Quarter	92.50	192.50
Ten Hours	70.00	137.00
Other Schools and Colleges		
Full Summer Quarter	65.00	165.00
First Term	44.00	111.00
Less than 8 hrs. or more than 11 hrs. first term	5.00/hr.	12.00/hr.
Second term	22.00	55.00
Less than 3 hrs. or more than 6 hrs. second term	5.00/hr.	12.00/hr.

REFUND OF FEES

First Term

Withdrawal	June 14-16	80% of fees paid.
Withdrawal	June 17-20	60% of fees paid.
Withdrawal	June 21-23	40% of fees paid.
Withdrawal	June 24-27	20% of fees paid.

No refund after June 27.

Second Term

Withdrawal	July 25-26	80% of fees paid.
Withdrawal	July 27-28	60% of fees paid.
Withdrawal	July 29-30	40% of fees paid.
Withdrawal	August 1-2	20% of fees paid.

No refund after August 2.

Students registered for full Summer quarter will be given refunds according to statement in General Catalogue.

Partial refunds for reduced class loads will not be made unless such reduction is the fault of the University.

PARKING PERMITS

Parking permits for students' cars may be secured in the ballroom of Memorial Hall on the days of registration.

HOUSING AND DINING HALL ACCOMODATIONS

The University dormitories will have ample housing facilities for both men and women.

Dormitory rates for Summer Sessions:

	MEN Law-Gr.	MEN Reed Hall	WOMEN Myers Hall
Quarter	$75.00	$71.00	$75.00
First Term	$50.00	$47.50	$50.00
Second Term	$25.00	$23.50	$25.00

Write Director of Men's Housing regarding housing for married students.

Dormitories are opened on the afternoon of the day prior to the first day of registration and closed on the day following the last scheduled date of examinations. Rooms are furnished with single beds, chairs, study tables, clothes cabinets or chest of drawers. Students are expected to furnish bed linens, pillows, blankets, and towels. Use of extra electrical heat appliances such as pressing irons, hot plates, heaters, etc., are not allowed in student rooms.

Dining Halls on North Campus, Student Center Cafeteria, and on South Campus, Snelling Hall, will be opened during the Summer. Meals are prepared under the supervision of experienced dietitians. Charges will be subject to prevailing cost, approximately $86.00 for the first term and $43.00 for second term.

The University reserves the right to make changes in its fees and charges at the beginning of any quarter and without previous notice. This right will be exercised cautiously.

LAUNDRY SERVICE

The University operates on the campus a laundry for the convenience of members of the student body. Charges for flat work laundry are included in the dormitory rate - 1 spread, 2 sheets, 1 pillow case, 6 towels, 2 wash cloths, 1 laundry bag each week. Other laundry work is optional at rates below commercial laundries.

GRADE REPORTS

The student grade reports will not be mailed until the end of the second term.

The faculty is asked to please post first term grades as the students need this information in registering for the second term.

SCHEDULE OF CLASSES

SUMMER QUARTER, 1960

FIRST TERM

Course No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
AGRICULTURAL ENGINEERING (AEN)							
261	Farm Machinery	5	1-2-3	D	Barrow	Annex	Rice
271	Farm Structures	5	7-8-9	D	Barrow	217	Hudson
701	Ag. Engr. Appl	5	1-2	D	Barrow	Shop	Harris
702	Ag. Engr. Appl	5	7-8	D	Barrow	Shop	Harris
AGRONOMY (AGY)							
821-2	Spec. prob. in soil Sci.	5 ea.	Arr.		Conner		Staff
823-4	Spec. Prob. in soil Sci.	5 ea.	Arr.		Conner		Staff
825-6	Special Prob. in Agronomy	5 ea.	Arr.		Conner		Staff
854	Adv. Soil Class	5	Arr.		Conner		Perkins
ANIMAL HUSBANDRY (AHY)							
AHY 372	Animal Breeding	5	3--4	D	Livestock Poultry	134	Warren
AHY 373	Feeds and Feeding	5	1- 2	D	Livestock Poultry	136	Danion
AHY 801-2	Special Problems	5	Arr.	Arr.	Livestock Poultry		Staff
ART (ART)							
200	Technical Problems	5	6,7 & Lab	D	Fine Arts	202	Staff
221	Drawing & Painting	5	6,7 & Lab	D	Fine Arts	202	Staff
231	Painting	5	1,2 & Lab	D	Fine Arts	202	Staff
233	Painting	5	1,2 & Lab	D	Fine Arts	202	Staff
241	Watercolor	5	3,4 & Lab	D	Fine Arts	302	Staff
242	Watercolor	5	3,4 & Lab	D	Fine Arts	302	Staff
513	Crafts for Teachers	5	1,2 & Lab	D	Art Annex	E	Amos
523	Materials & Design	5	5,6 & Lab	D	Art Annex	E	Staff
536	Teaching of Art in the Secondary Schools	5	3,4 & Lab	D	Art Annex	E	Pickens
539	Supervision of Art	5	1,2 & Lab	D	Art Annex	E	Staff
540	Art Ed. in Elem. School	5	3,4 & Lab	D	Art Annex	E	Staff
731	Painting	5	1,2,3,4	D	Fine Arts	302	Staff
800	General Art	5	Arr.	D	Fine Arts	302	Staff
BACTERIOLOGY (BAC)							
350	Bacteriology	5	1-2-3	D	Baldwin	204	Staff
900	Bacteriology	5	Arr.	Arr.	Baldwin	107	Staff
BOTANY							
10	Plant. Biol. & Man	5	1-2	D	Baldwin	301	Staff
21	Elementary Botany	5	1-2	D	Baldwin	300	Staff
22	Elementary Botany	5	3-4	D	Baldwin	300	Staff
305	Ident. of Flowering Plant	5	1-2	D	Baldwin	300	Duncan
375	Plant Ecology	5	3-4	D	Baldwin	301	Staff
520	Field and Lab Botany	5	3-4	D	Baldwin	313	Westfall
802	Problems in Botany	5	Arr.	D	Baldwin	309	Staff
BUSINESS ADMINISTRATION (BBA)							
10	Prin. of Acctg. 1st.	5	5-6	D	C-J	502	Perdue
51	Prin. of Org. & Mgmt.	5	7--8	D	C-J	523	Jensen
311	Int. Cost. Acctg.	5	3-4	D	C-J	502	Pate

Courses numbered 400 to 599 are for undergraduate credit and have corresponding numbers 600-799 (scheduled the same hours) for graduate credit.

ourse No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
BUSINESS ADMINISTRATION (BBA) (Continued)							
315	Punched Card Equip.	5	3-4	D	C-J	101	Homick
325	Aircraft & Theory of Flt.	5	3-4	D	C-J	212	Nachtrab
327	Airport Mang. & Op.	5	5-6	D	C-J	212	Nachtrab
368	Prin. of Selling	5	3-4	D	C-J	523	Jensen
370	Bus. Law, 1st	5	3-4	D	C-J	207	Charles
371	Bus. Law, 2nd	5	1-2	D	C-J	207	Charles
388	Property Insurance	5	7-8	D	C-J	207	J. Cobb
390	Real Estate Prin.	5	3-4	D	C-J	453	Beaton
453	Acctg. Theory, 1st	5	1-2	D	C-J	502	Baker
506	Social Insurance	5	3-4	D	C-J	206	J. Cobb
560	Prin. & Prob. Retailing	5	5-6	D	C-J	523	Endsley
563	Advertising	5	1-2	D	C-J	403	Endsley
564	Sales Management	5	5-6	D	C-J	202	Troelston
ECONOMICS (ECN)							
5	Prin. of Economics	5	1-2	D	C-J	206	Beadles
5	Prin. of Economics	5	5-6	D	C-J	206	Rasmussen
5	Prin. of Economics	5	7-8	D	C-J	206	Ellis
6	Prob. of Economics	5	1-2	D	C-J	205	Ellis
33	Eco. Dev. of U. S.	5	3-4	D	C-J	303	Smith
312	Elem. Econ. Statistics	5	5-6	D	C-J	205	Spencer
326	Money & Banking	5	3-4	D	C-J	205	Tate
330	Business Finance	5	3-4	D	C-J	455	Wright
334	Personal Finance	5	7-8	D	C-J	455	Wright
360	Prin. of Marketing	5	7-8	D	C-J	205	Rasmussen
386	Labor Econ.	5	1-2	D	C-J	204	Wood
406	Adv. Econ. Theory	5	5-6	D	C-J	453	Beadles
431	Investments	5	1-2	D	C-J	453	Dince
455	Cont. Econ. Problems	5	3-4	D	C-J	204	Wood
487	Commodity Exchange	5	3-4	D	C-J	202	Troelston
488	Securities Market	5	5-6	D	C-J	455	Davids
585	Personnel Adm.	5	1-2	D	C-J	402	Mura
844	Seminar in Gov't & Bus.	5	Arr.		C-J	303	Smith
CHEMISTRY (CHM)							
21	Gen. Chem.	5	1-2-3-4	D	Chemistry	333	Dargan
21	Gen. Chem.	5	1-2-3-4	D	Chemistry	117	Heric
23	Qual. Anal.	5	1-2-3-4	D	Chemistry	116	Jacobs
23	Qual. Anal.	5	6-7-8-9	D	Chemistry	116	Waggoner
340a	Org. Chem.	5	1-2-3-4	D	Chemistry	232	Scott
340a	Org. Chem.	5	6-7-8-9	D	Chemistry	231	Lamb
380	Quant. Anal.	5	6-7-8-9	D	Chemistry	117	Firsching
420	Adv. Inorg.	5	1-2	D	Chemistry	335	Staff
725	Chem. for Teachers	5	1-2	D	Chemistry	230	Whitehead
740	Org. Chem. for H. S. Tec.	5	6-7	D	Chemistry	232	Scott
849	Intro. to Research	5	Arr.	D	Chemistry		Staff
900	Research	1-10	Arr.	D	Chemistry		Staff
930	Thesis	5	Arr.	D	Chemistry		Staff
CLASSICS							
Classical Culture (CCL)							
301	Classical Culture(Greece)	5	1-2	D	Park	204	Alexander
302	Classical Culture(Rome)	5	5-6	D	Park	204	Staff
550	Latin for Teachers	5	1-2	D	Park	204	Staff
801	Greek Civilization	5	Arr.	D	Park	204	Alexander
EDUCATION							
General Education (EDU)							
304	Educational Psychology	5	1-2	D	Peabody		Garrison
346.3	Apprentice Tchg. (Rec.)	5	Arr.	D	Stegeman		E. B. Smith
347.3	Apprentice Tchg. (Rec.)	5	Arr.	D	Stegeman		E. B. Smith
401	Problems in Tchg. of Rdg.	5	3-4	D	Peabody		Aaron
402	Anal. & Corr. Rdg. Dis.	5	1-2	D	Peabody		Aaron
405	Funds. of Curriculum	5	3-4	D	Peabody		Newsome
418	Statistical Meths. Edu.	5	3-4	D	Peabody		Greene
420	Funds. of Guid. Program	5	1-2	D	Peabody		Staff
421	Spec. Probs. in Edu.	5	Arr.	D	Peabody		Staff
452	Psychology of Childhood	5	3-4	D	Peabody		Garrison

Course No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
GENERAL EDUCATION (EDU) (Continued)							
456	Tests and Measurements	5	3-4	D	Peabody		Kingston
476	Stuttering: Etiol.& Thera.	5	3-4	D	Waddell		Luper
506	Curr. Planning (Elem.)	5	1-2	D	Peabody		Wootton
506	Curr. Planning (Bus.Ed.)	5--	1-2	D	Peabody		Roach
506	Curr. Planning (Science)	5	7-8	D	Peabody		Singleton
512	Intro. Exceptional Chil.	5	1-2	D	Peabody		Blake
517	Probs. of Tchg.(Secondary)	5	1-2	D	Peabody		Singleton
517	Probs. of Tchg.(Elem.)	5	3-4	D	Peabody		Wootton
517	Probs. of Tchg.(Ele.Sci.)	5	3-4	D	Peabody		Burnham
518	Nature of Mental Retardtn.	5	5-6	D	Waddell		Blake
519	Meths. of Tchg. Men. Retar.	5	1-2	D	Pub. Sch.		F. Scott
519	Meths.Tchg. Men. Retar. (Older Children)	5	7-8	D	Pub. Sch.		F. Scott
521	Analysis of Individual	5	3-4	D	Peabody		Staff
523	Counseling	5	1-2	D	Peabody		Staff
524	Edu'l & Occup'l Infor.	5	3-4	D	Peabody		Staff
538	Prog.Admin.&Clin.Pract. in Speech Correction	5	1-2	D	Waddell		Ainsworth
541	Prin.& Pract. Tchg.Ind.	5	Arr.	(7/5-7/22)			A. G. Bryant
W-560	Wrkshop.(Edu'l Plan Dev.)	10	All Day		Military		Staff
W-560	Wrkshp(Tchg. Sec.Prac.)	5	3-4	D	Peabody		Roach
W-560	Wrkshop (Edu'l Tel.)	5	3-4	D	Peabody		Oliver
W-560	Wrkshp.(Nutr.Edu. Techrs.)	5	1-2	D	Peabody		Beall
W-560	Wrkshp)Tchrs. Ind. Elec.)	5	Arr.	D	Peabody		Staff
565	Util. Audio-Vis. Matrls.)	5	1-2	D	Peabody		Staff
565	Util.Audio-Vis. Mtrls(T&I)	5	All Day	(7/5-7/22)			Staff
577	Safety & Driver Edu.	5	1-2	D	Stegeman		Bowen
577	Safety & Driver Edu.	5	3-4	D	Stegeman		Bowen
581	Probs. Tchg.Romance Langs	5	8-9	D	Park		Shedd
604	Guid. Rdg. of Children	5	5-6	D	Peabody		Sutton
621	Spec. Probs. in Edu.	5	Arr.	D	Peabody		Staff
644	Coord. of Divr.Cp.Trng.	5	Arr.	(6/13 7/1)			A. G. Bryant
671.1	Adult Edu. (Agri.)	5	Arr.	(7/5 -7/22)			Tolbert
671.18	Adult Edu. (T & I)	5	Arr.	(7/5-7/22)			Staff
730	Sup. Tchg.(Administration)	5	6-7	D	Peabody		D. Smith
733	Seminar in Grp. Develpmnt.	5	1-2	D	Peabody		Burnham
742	Sch. Shp. Eqpt.&Mgmnt.(T&I)	5	Arr.	(7/5-7/22)			Staff
763.1	Probs. in Voc. Edu. (Ag.)	5	6-7	D	Peabody		O'Kelley
763.2	Probs. in Voc. Edu.(H Ec)	5	Arr.	6/13- 7/1	Peabody		Cross
771.1	Tchg.Probs.Voc.Edu. (ag.)	5	1-2	D	Peabody		O'Kelley
771.2	Tchg.Probs.Voc.Edu.(H Ec)	5	3-4	D	Peabody		Beall
772.1	Evluatn.Voc.Edu. (Ag.)	5	Arr.	(6/13-7/1)			Tolbert
772.2	Evluatn.Voc.Edu.(H.Ec.)	5	7-8	(7/5-7/22)	Peabody		Boyd
773.18	Sup. Voc'l Tchg. (T&I)	5	Arr.	(6/13-7/1)			Staff
790	Educational Admn.	5	3-4	D	Peabody		D. Smith
794	School Administration	5	6-7	D	Peabody		Gentry
798	Schl.Fin.&Bus.Mngmnt.(Admn)	5	1-2	D	Peabody		Gentry
802	Advncd.Edu'l Psychology	5	6-7	D	Peabody		Kingston
803	Philosophy of Education	5	1-2	D	Peabody		Newsome
816	Meths.Frml.Rsrch in Edu.	5	1-2	D	Peabody		Bledsoe
826	Meths.Apld.Rsch in Edu.	5	1-2	D	Peabody		Bledsoe
826	Meths Apld Res. in Edu.	5	3-4	D	Peabody		Bledsoe
826	Meths Apld.Res. in Edu.	5	3-4	D	Peabody		O. Scott
826	Meths.Apld Res. in Edu.	5	5-6	D	Peabody		Staff
826	Mth Apl Res Edu (Sup.only)	5	Arr.	D	Peabody		Greene
899	School Law (Supts. only)	5	Arr.	D	Peabody		Sprowles
900	Thesis & Disrtatn.Semnr.	5	Arr.	D	Peabody		Staff
916-7-8	Educational Research	5 ea.	Arr.	D	Peabody		Staff
921	Lab. in Applied Research	5	Arr.	D	Peabody		Staff
INDUSTRIAL ARTS (EDU)							
150	Industrial Arts Drftng.	5	3-4& Arr.	D	Ed. Annex		Staff
323	Industrial Arts Design	5	3-4& Arr.	D	Ed. Annex		Staff
330	Advanced Drafting	5	3-4& Arr.	D	Ed. Annex		Staff
332	Indus.Arts & Hndcrft Tec.	5	3--4& Arr.	D	Ed. Annex		Staff
340	Machine Drafting	5	3-4& Arr.	D	Ed. Annex		Staff
560	Admn. of Ind. Arts	5	1-2	D	Ed. Annex		Staff
570	Spec. Probs. in Ind.Arts	5	Arr.	D	Ed. Annex		Staff
580	Indus. Arts Seminar	5	Arr.	D	Ed. Annex		Staff
LIBRARY EDUCATION (PED)							
303	Utlzatn. Lib. Mtls.	5	1-2	D	Library		Broadhurst
305	Admn. of Small Library	5	3-4	D	Library		Broadhurst

rse No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
PHYSICAL EDUCATION (PED)							
1-2	Physical Education	0	1	D	Stegeman		Staff
18	Social Recreation	3	2	D	Stegeman		Staff
80-1-2	Skill Techniques	3 ea.	Arr.	D	Stegeman		Staff
180-1-2	Thry & Prac. Minor Sports	3 ea.	7	D	Stegeman		Staff
307	P. E. in the Elem. Sch.	5	1-2	D	P. E. Bldg.		Staff
307	P. E. in the Elem. Sch.	5	3-4	D	P. E. Bldg.		Staff
344	Probs. in Health Eductn.	3	3-4	D	P. E. Bldg.		Staff
372	Hstry & Prncpls of P. E.	5	3-4	D	P. E. Bldg.		Staff
384	Intrprtatn. of Recratn.	3	1	D	Stegeman		Staff
511	Health Ed. in Sch.& Comnty	5	1-2	D	P. E. Bldg.		Staff
512	Sch.& Comm. Rec. Prog.	5	7-8	D	Stegeman		Staff
513	Phys.Ed. in Schl.Progrms	5	3-4	D	Stegeman		Staff
514	Probs. in Health Educatn.	5	5-6	D	P. E. Bldg.		Staff
714-715	Probs. in Health Ed.(Alchl)	5 ea.	All Day		Stegeman		Staff
ENGLISH (ENG)							
101	Composition	5	1-2	D	Park	5	McWhorter
101	Composition	5	3-4	D	Park	5	Jones
101	Composition	5	3-4	D	Park	9	Barnett
102	Composition & Litdrature	5	1-2	D	Park	9	Appleby
102	Composition & Literature	5	3-4	D	Park	10	Montgomery
102	Composition & Literature	5	3-4	D	Park	205	Hutcherson
121	Western World Literature	5	1-2	D	Park	202	Davidson
121	Western World Literature	5	3-4	D	Park	1	Wallis
122	Western World Literature	5	1-2	D	Park	10	Tison
406	Romantic Movement	5	1-2	D	Park	205	Olney
402	Chaucer	5	1-2	D	Park	206	Lindemann
422	American Lit. since 1865	5	5-6	D	Park	201	Olney
441	Shakespeare	5	5-6	D	Park	205	Davidson
442	Early Victorian Literature	5	3-4	D	Park	201	Everett
806	Romantic Movement	5	1-2	D	Park	308	Everett
ENTOMOLOGY (ENT)							
374	Economic Entomology	5	4-5-6	D	Baldwin	112	Lund
573	Insects in Field & Stream	5	3-4	D	Baldwin	115	Paul
FINE ARTS (FA)							
300	Music & Visual Arts	5	3-4	D	Fine Arts	111	Staff
FOOD TECHNOLOGY (FDP)							
409	Home & Comnity Food Pres.	5	1-2-3	D	Food Tech.	218	Powers
819	Methods in Food Tech.	5	Arr.	D	Food Tech.	218	Powers
* FORESTRY (FOR) * All courses go through both Terms.							
300	Forestry Camp	15	All Day	D	Camp		Bishop-Grant
512	Forest Management	3	Arr.	D	Forestry		Patterson
513	Forest Management	6	Arr.	D	Forestry		Patterson
692	Economic Analysis	5	Arr.	D	Forestry		Parker
731	Adv. Forest Management	5	Arr.	D	Forestry		Patterson
801	Adv. Silviculture	5	Arr.	D	Forestry		Jackson
921	Applied for.Problems	5	Arr.	D	Forestry		Staff
GEOGRAPHY AND GEOLOGY (GGY,GLY)							
4	Earth Resources Survey	5	1 & 2	D	G-G--M	2-C	Poole
101	World Human Geography	5	3 & 4	D	G-G-M	2-B	Langley
310	Conservation of Resources	5	1 & 2	D	G-G-M	2-A	Northam
420	Air Photo Mapping	5	1 & 2	D	G-G-M	3-A	Barnes
420L	Air Photo Mapping Lab 1		3 & 4	D	G-G-M	319	Barnes
420L	Air Photo Mapping Lab II		3 & 4	D	G-G-M	321	Poole
436	Geography of the South	5	3 & 4	D	G-G-M	210	Prunty
25	Phys.Elmnts (L.Arr.Mon)	5	1 & 2	D	G-G-M	2-D	Salotti
26	His.Elmnts (L.Arr.Tues.)	5	5 & 6	D	G-G-M	2-D	Salotti
HISTORY (HIS)							
100	Survey of Amer. History	5	1-2	D	Academic	314	Staff
111	Western Civilization	5	1-2	D	Academic	318	Jones
111	Western Civilization	5	3-4	D	Academic	314	D. Smith
112	Western Civilization	5	3-4	D	Academic	318	Tresp.
112	Western Civilization	5	5-6	D	Academic	318	Tresp.

Course No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
HISTORY (HIS) Continued							
351	American History	5	5-6	D	Academic	320	D. Smith
425	Ancient History	5	3-4	D	Academic	320	Jones
453	Jefrsn. to Civil War	5	1-2	D	Academic	321	Montgomery
459	His. of Georgia	5	5-6	D	Academic	321	Coleman
495	U. S. World Afrs. Sin.1900	5	3-4	D	Academic	321	Vinson
HOME ECONOMICS (HEC)							
5	Family Meal Prep.&Serv.	5	1-2-3	D	Dawson	202	Staff
293	Family Relations	5	6-7	D	Dawson	310	Fowler
306	Foods	5	6-7-8	D	Dawson	104	Moore
321	Cloth.Sel.& Constr.(L.Arr)	5	3-4	D	Dawson	302	Johnson
351	Fndatns. of Nutrition	5	3-4-5	D	Dawson	116	Newton
368	Home Management	3	2	D	Dawson	312	Jenkins
369	Home Management	3	Arr.	D	H. Mgt. Hse.		Staff
455	Nutrtn,Infncy & chldhood	5	Arr.	D	Dawson	116	Newton
475	Home Dec. & Furn.	5	Arr.	D	Dawson	312	Wilson
490	Devel. of Young Child	5	7	D	Dawson	213	Young
493	Econ.& Soc.Prob. of Fam.	5	3-4	D	Dawson	319	Fowler
495	Contemporary Fam. Life	5	Arr.	7/5 to7/21	Dawson	319	Broderick
495	Contemporary Fam. Life	5	6-7	D	Dawson	319	Staff
550	Intro. to Exp. Foods	5	Arr.	D	Dawson	104	Staff
563	Ill. Mtrls in Clo.& Tex.	5	Arr.	6/14 to 7/1	Dawson	308	Armstrong
564	Ptrn.Desgn& Drpng(L.Arr.)	5	1-2	D	Dawson	302	Johnson
850	Smnr. in Foods & Nutrn.	5	Arr.	D	Dawson	103	Hood
865	Clthng.& Txtl. Prob.	5	Arr.	D	Dawson	306	Armstrong
890	Resrch in Fam. Chld. Dev.	5	Arr.	D	Dawson	313	Broderick
892	Behvr Problem in Child	5	1-2	D	Dawson	213	Young
893	Adjst. in Home Fam. Rel.	5	1-2	D	Dawson	310	Sheerer
893	Adjst. in Home Fam. Rel.	5	3-4	D	Dawson	310	Sheerer
894	Smnr. in Chld& Fam. Dev.	5	Arr.	D	Dawson	303	Broderick
921	Probs.in Home Economics	5	Arr.	D	Dawson		Staff
930	Thesis	5	Arr.	D	Dawson		Staff
HORTICULTURE (HOR)							
1	Gen. Horticulture	3	7-8	D	Conner	204	Bowden
311	Floral Design	3	1-2	D	Conner	205	Bowden
407	Spec. Prob. in Horticltr.	5	Arr.	D	Conner	201	Staff
JOURNALISM (JRL)							
30-430	History of Journalism	5	3-4	D	C-J	351	Kopp
364	Newspaper Management	3	5	D	C-J	257	Abney
377	Photojournalism	3	6	D	C-J	257	Abney
454	Laws of Communication	5	1-2	D	C-J	351	Kopp
566	Journalism in Sec.School	5	3-4	D	C-J	257	Abney
566	Journalism in Sec.School	5	7-8	D	C-J	351	Abney
575	Advertising Copy	5	1-2	D	C-J	255	Moore
577	Public Relations	5	3-4	D	C-J	255	Moore
580	Radio-Tel. in Jrl.	5	1-2	D	C-J	352	McDougald
583	Radio Prfrmnc and T.V.	5	3-4	D	C-J	352	McDougald
LAW (LAW) Schedule by arrangement with Dean.							
LANDSCAPE ARCHITECTURE (LAR)							
313	Landscape Design	5	6-7 lab.	D	LAR	4	Dobereiner
MATHEMATICS (MAT)							
100	College Algebra	5	3-4	D	Math	122	Staff
100	College Algebra	5	5-6	D	Math	123	Staff
101	Trigonometry	5	3-4	D	Math	123	Staff
502	Basic Ideas of Arithmetic	5	1-2	D	Math	122	Staff
512	College Geometry	5	1-2	D	Math	123	Horne
514	Elem.Set.Thry. of Tchrs.	5	3-4	D	Math	141	Ball
110	Analytic Geometry	5	1-2	D	Math	141	Staff
354	Calculus	5	1-2	D	Math	142	Staff
401	Differential Equations	5	3-4	D	Math	143	Staff
516	Mdrn.Algebra for Techrs.	5	5-6	D	Math	141	Jewett
356	Statistics	5	3-4	D	Math	142	Cohen
MODERN FOREIGN LANGUAGES							

urse No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
French (FR)							
103	Intermidiate French	5	1-2	D	Moore Clg.		Staff
590	French for Teachers	5	3-4	D	Moore Clg.		Staff
851	Reading & Resrch Fr.Lit.	5	Arr.	D	Moore Clg.		Staff
German							
101	Elementary German	5	1-2	D	Moore Clg.		Levitsky
Spanish							
103	Intermidiate Spanish	5	3-4	D	Moore Clg.		Peterson
590	Spanish for Teachers	5	1-2	D	Moore Clg.		Williams
851	Rdg.& Resrch in Sp. Lit.	5	Arr.	D	Moore Clg.		Staff
MUSIC (MUS)							
12	Theory	3	6	D	F. A.	214	Anderson
253	Brass Methods	2	3	MTWT	F. A.	31	Mitchell
302	Meth. of Tec. P. S. Music	5	1--2	D	F. A.	213	Leonard
302	Meth. of Tec. P. S. Music	5	3-4	D	F. A.	213	Anderson
343	Listerner's Hist. of Mus.	3	4	D	F. A.	120	Staff
374	Orchestration	3	3	D	F. A.	214	Main
375	Orchestration	3	1	D	F. A.	214	Mitchell
388	University Chorus	1	Arr.	Arr.	F. A.	31	Staff
390	University Band	1	9	D	F. A.	31	Newman
462	Modern Music	5	1-2	D	F. A.	120	Staff
731	Vocal Problems	3	5	D	F. A.	214	Leonard
732	Instrumental Problems	3	1	D	F. A	215	Newman
733	mus. Admnstratn.& Curr.	3	2	D	F. A.	215	Newman
734	Choral Music Materials	3	4	D	F. A.	31	Leonard
735	Instrmntl.Music Mtrls.	3	4	D	F. A.	215	Newman
736	Editing and Arranging	3	5	D	F. A.	213	Main
737	Score Analysis	3	2	D	F. A.	214	Main
738	Advanced Conducting	3	3	D	F. A.	215	Newman
875	Resrch Semnr.	5	7-8	D	F. A.	120	Mitchell
	Apl. Music:						
	85,86,287,288,485,785	1	Arr.				Staff
	273,274	2	Arr.				Staff
	Theory (as needed)		6	D	F. A.	214	Anderson
PHARMACY (PHR)							
331	Jr. Dispensing	5	Arr.	D	Pharmacy		Staff
332	Jr. Dispensing	5	Arr.	D	Pharmacy		Staff
337	Sr. Dispensing	5	Arr.	D	Pharmacy		Staff
323	Pharm. Arithmetic	3	Arr.	D	Pharmacy		Staff
376	Bio. Pharmacy	5	Arr.	D	Pharmacy		Staff
383	Pharmacology	5	Arr.	D	Pharmacy		Staff
PHILOSOPHY (PHY) RELIGION (REL)							
104	Introduction to Phil.	5	1-2	D	Meigs	204	Levison
440	Teachings of Jesus	5	1-2	D	Meigs	3	Ayers
305	Ethics	5	3-4	D	Meigs	1	Ayers
358	Logic	5	3-4	D	Meigs	3	Staff
PHYSICS AND ASTRONOMY (PCS)							
1	Physical Science	5	3-4	D	Physics	202	Henry
20	Physics	5	3-4-5	D	Physics	254	Staff
27	Physics	5	7-8-9	D	Physics	306	Henry
430	Physics	5	6-7	D	Physics	302	Dixon
529	Physics	5	7-8-9	D	Physics	327	Staff
591	Astronomy for Teachers	5	1-2	D	Physics	302	Dixon
PLANT PATHOLOGY (PAT)							
353	Elem. Plant Pathology	5	3-4	MWF	Fd.Tech.		Thompson
353	Laboratory		1-2-3-4	T-Th	Fd.Tech.		
800	Resrch. in Plant Path.	5	Arr.		Fd.Tech.		Staff
810	Resrch in Plant Genetcs.	5	Arr.		Fd.Tech.		Fleming
812	Spec.Plant Breeding	5	Arr.		Fd.Tech		Fleming
POLITICAL SCIENCE (POL)							
1	Amer. Govt.	5	1-2	D	Acad.	212	Staff
1	Amer. Govt.	5	3-4	D	Acad.	212	Staff

Course No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
POLITICAL SCIENCE (POL) Continued							
1	Amer. Govt.	5	5-6	D	Acad.	212	Staff
408	Amer. Pol. Thought to 1800	5	3-4	D	Acad.	207	Pound
410	Amer. Pol. Parties	5	1-2	D	Acad.	207	Pound
441	Prin. Pub. Adm.	5	3-4	D	Acad.	205	Hughes
883-884	Readings in U. S. Govt.	5	Arr.	D	Acad.	204	Saye
POULTRY HUSBANDRY (PHU)							
806	Poultry	5	Arr.	D	Poultry	126	Huston
PSYCHOLOGY (PSY)							
101	Elementray Psychology	5	1-2	D	Meigs	1	Ennois
101	Elementary Psychology	5	3-4	D	Meigs	201	Peacock
415	Psychometrics	5	7-8	D	Meigs	2	Osborne
459	Mental Hygiene	5	1-2	D	Meigs	2	Hammes
490	Devel. of Young Child	5	7-8	D	Dawson	213	Young
582	Emplymnt mtds: Testing	3	3-4	MWF	Meigs	2	Enneis
592	Emplymnt mtds: Intrvwng.	2	3-4	TT	Meigs	2	Enneis
805	Theories of Learning	5	3-4	D	Meigs	204	James
892	Behavior Probs. in Cldrn.	5	1-2	D	Dawson	213	Young
SOCIOLOGY AND ANTHROPOLOGY							
Sociology (SOC)							
5	Introductory Sociology	5	1-2	D	Academic	305	Silverman
360	Contmpry. Soc. Prblms.	5	6-7	D	Academic	304	Silverman
427	Prsnlty & Soc. Adjstmnt.	5	1-2	D	Academic	304	Chambliss
431	Rural-Urban Sociology	5	3-4	D	Academic	304	Belcher
433	Pop. Thry. and Probs.	5	1-2	D	Arr.		Belcher
435	Commnty. Organizations	5	3-4	D	Academic	305	Williams
461	The Family	5	3-4	D	Arr.		Chambliss
481	Criminology	5	3-4	D	Arr.		Payne
427	Prsnlty & Soc. Adj.	5	6-7	D	Academic	305	Payne
Anthropology (ANT)							
401	Archaeology Sou. U. S.	5	7/1-8/16	D	Field Sch.		Kelly
420	Fld.&Lab. mtds. in Arhlgy	5	7/1-8/16	D	Field Sch.		Kelly
801-802	Res. in SE Archaeology	5 ea.	7/1-8/16	D	Field Sch.		Kelly
SPEECH AND DRAMA							
Speech (SPC)							
8	Fundamentals of Speech	5	1-2	D	Fine Arts	12	Ballew
8	Fundamentals of Speech	5	3-4	D	Fine Arts	12	Ballew
8	Fundamentals of Speech	5	1-2	D	Fine Arts	10	Camp
8	Fundamentals of Speech	5	3-4	D	Fine Arts	10	Camp
310	Survey of Spch. Problems	5	1-2	D	Waddel	8	Luper
412	Advanced Phonetics	5	1-2	D	Waddel	5	Ainsworth
476	Sttrng:Etiolgy& Therapy	5	3-4	D	Waddel	8	Luper
593	Speech for Elem. Teacher	5	3-4	D	C. J.	258	Popovich
Drama (DRA)							
730	Play Pro. H. S. Tchrs.	5	3-4	D	Fine Arts	13	Staff
801	Smnr. in Drama	5	Arr.	D	Fine Arts	15	Staff
VETERINARY MEDICINE Schedule by Arrangement with Dean.							
ZOOLOGY (ZOO) HUMAN BIOLOGY (HB)							
1	Human Biology	5	1-2	D	Baldwin	112	Staff
2	Human Biology	5	1-2	D	Baldwin	102	Nuttycombe
355	Embryology	5	3-4-5	D	Baldwin	102	Nuttycombe

SCHEDULE OF CLASSES

SECOND TERM

AGRICULTURAL ECONOMICS (AEC)							
402	Advanced Farm Management	5	Arr.	D	Conner	107	Proctor
AGRICULTURAL ENGINEERING (AEN)							
207	Adv. Farm Shop	3	Arr.	D	Barrow	Shop	Harris
AGRONOMY (AGY)							
821-2	Spec. Prob. in Soil Sci.	5 ea.	Arr.		Conner		Staff
823-4	Spec. Prob. in Plant Sci.	5 ea.	Arr.		Conner		Staff
825-6	Spec. Prob. in Agronomy	5 ea.	Arr.		Conner		Staff
BACTERIOLOGY (BAC)							
350	Bacteriology	5	Arr.	D	Baldwin	204	Staff
BOTANY (BOT)							
11	Plant Biol. & Man.	5	Arr.	D	Baldwin	300	Staff
22	Elementary Botany	5	Arr.	D	Baldwin	301	Staff
BUSINESS ADMINISTRATION (BBA)							
11	Prin. of Acctg. 2nd	5	Arr.	D	C-J		Pate
51	Prin. of Org. & Mgmt.	5	Arr.	D	C-J		Spencer
515	Income Taxation	5	Arr.	D	C-J		Perdue
ECONOMICS (ECN)							
5	Prin. of Economics	5	Arr.	D	C-J		Mura
312	Elem. Econ. Statistics	5	Arr.	D	C-J		L. Cobb
434	Public Finance	5	Arr.	D	C-J		Tate
489	Labor Movement	5	Arr.	D	C-J		Segrest
893-4	Econ. Seminar	5	Arr.	D	C-J		Davids
CHEMISTRY (CHM)							
22	Gen. Chem.		Arr.				Firsching
22	Gen. Chem.		Arr.				Dargan
340b	Org. Chem.		Arr.				Lamb
340b	Org. Chem.		Arr.				Clark
380	Quant. Anal.		Arr.				Whitehead
849	Intro. to Research		Arr.				Staff
930	Thesis		Arr.				Staff
CLASSICS							
Classical Culture (CCL)							
302	Classcal Culture:Rome	5	Arr.	D	Park	204	Staff
EDUCATION							
General Education (EDU)							
304	Educational Psychology	5	Arr.	D	Peabody		Staff
348.3	Aprntc. Teching.(rec.)	5	Arr.	D	Stegeman		E. B. Smith
401	Probs. in Tchg. Rdng.	5	Arr.	D	Peabody		Aaron
418	Statistical Meths. in Ed.	5	Arr.	D	Peabody		Bledsoe
455	Psy. of Adolescence	5	Arr.	D	Peabody		Garrison
506	Curriculum Planning (Eng)	5	Arr.	D	Peabody		Tingle
506	Curriculum Plng.(Soc.St.)	5	Arr.	D	Peabody		O. Scott
506	Curr. Plng. (Admin.)	5	Arr.	D	Peabody		Sprowles
512	Intro. to Excptnl Child.	5	Arr.	D	Peabody		Staff
517	Probs. of Tchng. (Elem.)	5	Arr.	D	Peabody		Wooton
517	Probs. of Tchg(Vstng Tchrs)	5	Arr.	D	Peabody		Nesbit
521	Anal. of Individual	5	Arr.	D	Peabody		Mills
523	Counseling	5	Arr.	D	Peabody		Swain
524	Edu'l and Occup'l Info.	5	Arr.	D	Peabody		King
W-560	Wrkshop (Human Dvlpmnt.)	5	Arr.	D	Peabody		Shufelt
W-560	Wrkshp (Family Finance)	5	Arr.	D	Peabody		Roach-Boyd-Cooper
565	Slct&Utl Au.Visul Mtrls.	5	Arr.	D	Peabody		Oliver
577	Sfty & Drvr.Eductn.	5	Arr.	D	Stegeman		Bowen
621	Spec. Probs. in Eductn.	5	Arr.	D	Peabody		Staff
730	Suprvsn of Tchrs(Supvs.)	5	Arr.	D	Peabody		Cox
730	Sprvsn. of Tchrs(Sp.Tchrs)	5	Arr.	D.	Military Bldg.		Perrodin

Course No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
General Education (EDU) Continued							
733	Seminar in Grp. Dvlopmnt.	5	Arr.	D	Peabody		Burnham
737	Seminar in Spch.Pathology	5	Arr.	D	Ga. Center		Luper
W-760	Wrkshp (Supv. Tchrs.)	5	Arr.	D	Peabody		Beall-Singleton-_Dic
794	School Administration	5	Arr.	D	Peabody		Gentry
795	State &City Sch.Adm.(S.Elc)	5	Arr.	D	Peabody		D. Smith
797	The School Plant	5	Arr.	D	Peabody		Ezell
INDUSTRIAL ARTS (EDU)							
325	Advanced Woodwork	5	Arr.	D	Ed. annex		Staff
328	Advanced General Shop	5	Arr.	D	Ed. Annex		Staff
332	I.A.& Hndcrfts for Tchrs.	5	Arr.	D	Ed. Annex		Staff
510	Prins. of I. A. Education	5	Arr.	D	Ed. Annex		Staff
LIBRARY EDUCATION (LIB)							
502	Prins. of Book Evluatn.	5	Arr.	D	305 Library		Broadhurst
PHYSICAL EDUCATION (PED)							
80-1-2	Skill Techniques	3 ea.	Arr.	D	Stegeman		Staff
180-1-2	Theor.&Pract. of Minor Sprt	3ea.	Arr.	D	Stegeman		Staff
372	Hist. & Prins. of P. E.	5	Arr.	D	Stegeman		Staff
376	Orgn.& Admn. of P. E.	5	Arr.	D	Stegeman		Staff
383	Tests & Measurements(PE)	5	Arr.	D	Stegeman		Staff
384	Intrpratn. of Recreation	5	Arr.	D	Stegeman		Staff
385	Probs. of Recreation	5	Arr.	D	Stegeman		Staff
386	Camping Recreation	5	Arr.	D	Stegeman		Staff
515	Probs. in Hel.PE & Rec.	5	Arr.	D	Stegeman		Staff
714-15	Prbs.Hel.PE,Rec.(O.Edu.)	5	Arr.	D	Stegeman		Staff
ENGLISH (ENG)							
102	Comp. & Literature	5	Arr.	D	Park	1	Gate
102	Composition & Lit.	5	Arr.	D	Park	9	Hammond
122	Western World Lit.	5	Arr.	D	Park	202	Biswanger
122	Western World Lit.	5	Arr.	D	Park	203	Tison
310	Advanced Grammar	5	Arr.	D	Park	201	Dumas
FOOD TECHNOLOGY (FDP)							
409	Home & Com. Food Pres.	5	Arr.	D	Food Tech.	208	Pratt
820	Methods in Food Tech.	5	Arr.	D	Food Tech.	218	Pratt
GEOGRAPHY AND GEOLOGY (GGY.GLY)							
101	World Human Geography	5	Arr.	D	G-G-M	2-B	Northam
533	Geography of Community	5	Arr.	D	G-G-M	2-A	Barnes
HISTORY							
112	Western Civilization	5	Arr.	D	Academic	314	Staff
476-676	Age Rsn.&Frn.Rev.1660-1815	5	Arr.	D	Academic	320	J. Smith
HOME ECONOMICS (HEC)							
224	Elem. Textiles	5	Arr.	D	Dawson	308	Luffman
344	Home Nursing	3	Arr.	D	Dawson	310	Wilson
357	Food Demonstration	3	Arr.	D	Dawson	201	Moore
369	Home Mgmnt. Res.	(Cont'd)	Arr.	D	H.Mgt.Hse.		Staff
480	Housing Dvlopmnt.	5	Arr.	D	Dawson	210	Staff
493	Econ.& Soc.Prob. Family	5	Arr.	D	Dawson	319	Fowler
495	Contmpry.Family Life	5	Arr.	D	Dawson	213	Broderick
563	Ill.Mtrls.Clthg & Txtls.	5	Arr.	D	Dawson	302	Johnson
570	Consumer Problems	5	Arr.	D	Dawson	312	Staff
HORTICULTURE (HOR)							
408	Spec.Prob. in Hort.	5	Arr.	D	Conner	201	Staff
JOURNALISM							
40-440	Pubic Opinion	5	Arr.	D	C-J	352	Kopp
585	Introductory Television	5	Arr.	D	C-J	351	McDougld

rse No.	Subject	Credit Hrs.	Hr. of Cls.	Day of Wk.	Bldg.	Room	Instructor
MATHEMATICS (MAT)							
100	College Algebra	5	Arr.	D	Math	141	Staff
101	Trigonometry	5	Arr.	D	Math	142	Staff
MODERN FOREIGN LANGUAGES							
French (FR)							
104	Intermidiate French	5	Arr.	D	Moore Clg.		Staff
German (GER)							
102	Elementary German	5	Arr.	D	Moore Clg.		Levitsky
Spanish (SP)							
104	Intermediate Spanish	5	Arr.	D	Moore Clg.		Peterson
MUSIC (MUS)							
302	Methods Tec. P. S. Mus.	5	Arr.	D	F. A.	213	Anderson
PHARMACY (PHR)							
338	Sr. Dispensing	5	Arr.	D	Pharmacy		Staff
333	Jr. Dispensing	5	Arr.	D	Pharmacy		Staff
377	Drug Assay	5	Arr.	D	Pharmacy		Staff
PHILOSOPHY AND RELIGION (PHY) (REL)							
104	Intro. to Philsphy.	5	Arr.	D	Meigs	201	Staff
305	Ethics	5	Arr.	D	Meigs	2	Levison
PHYSICS AND ASTRONOMY (PCS)							
28	Physics	5	Arr.	D	Physics	327	Henry
329	Physics	5	Arr.	D	Physics	302	Dixon
PLANT PATH. & PLANT BREEDING (PAT)							
800	Resrh. in Plant Path.	5			Fd. Tech.		Staff
810	Resrh. in Pl. Genetics	5			Fd. Tech.		Fleming
POLITICAL SCIENCE (POL)							
1	Amer. Govt.	5	Arr.	D	Acad.	212	Staff
202	Amer. Govt.	5	Arr.	D	Acad.	205	Parthemos
406	State Govt.	5	Arr.	D	Acad.	207	Pound
442	Pub. Per. Adm.	5	Arr.	D	Acad.	204	Hughes
PSYCHOLOGY (PSY)							
101	Elem. Psychology	5	Arr.	D	Meigs	1	Staff
451	Theories of Prsnlty.	5	Arr.	D	Meigs	3	Hammes
SOCIOLOGY AND ANTHROPOLOGY							
Sociology (SOC)							
4	Contemporary Georgia	5	Arr.	D	Arr.		Dean
427	Prnslty & Socl. Adjusmnt	5	Arr.	D	Acad.	305	Williams
427	Prnslty & Socl.Adjustmnt	5	Arr.	D	Acad.	304	Chambliss
431	Rural-Urban Sociology	5	Arr.	D	Arr.		Belcher
435	Community Organization	5	Arr.	D	Arr.		Payne
SPEECH AND DRAMA							
Speech (SPC)							
739	Seminar in Spch.Path.	5	Arr.	D	Ga. Center		Luper
310	Survey of Spch. Probs.	5	Arr.	D	Ga. Center		Luper
Drama							
801	Seminar in Drama	5	Arr.	D	Fine Arts	15	Ballew
ZOOLOGY (ZOO) HUMAN BIOLOGY (HB)							
1	Human Biology	5	Arr.	D	Baldwin	112	Staff
2	Human Biology	5	Arr.	D	Baldwin	102	Nuttycombe

1960

JUNE 13 TO JULY 21

A program for — Teachers and administrators who wish to keep abreast of latest developments — Teachers working for degrees and certificates — Graduates interested in completing or beginning program requirements — College students who wish to complete a part or full quarter work.

JULY 25 TO AUGUST 18

BULLETIN OF

THE UNIVERSITY OF GEORGIA

Fall '61

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1960 CALENDAR 1960

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UNIVERSITY OF GEORGIA
CALENDAR, 1960 - 1961

SUMMER QUARTER, 1960

First Term

JUNE 13:	Registration
JUNE 14:	Classes Begin
JULY 4:	Holiday
JULY 21:	Term Ends

Second Term

JULY 25:	Registration and Classes Begin
AUGUST 18:	Graduation

FALL QUARTER, 1960

SEPTEMBER 18:	Freshmen and other new students report to assigned dormitories
SEPTEMBER 18-24:	Orientation Week
SEPTEMBER 22-23:	Registration
SEPT. 19-OCT. 1:	AATES and Workshop Registration
SEPTEMBER 26:	Classes begin for all students
OCTOBER 1:	Saturday Class registration
NOVEMBER 24-27:	Thanksgiving recess—Begins 3:00 p.m. on November 23
DECEMBER 10-15:	Examinations
DECEMBER 15:	Term Ends
DECEMBER 16:	Christmas Vacation begins

WINTER QUARTER, 1961

JANUARY 3:	Registration—Saturdays, January 7 and 14 will be regular class days
JANUARY 4:	Classes Begin
FEBRUARY 23:	Constitution Examination—3:30 p.m., LeConte Hall
MARCH 11-15:	Examinations
MARCH 15:	Term Ends
MARCH 16-19:	Spring Recess

SPRING QUARTER, 1961

MARCH 20:	Registration—Saturday, March 25 will be a regular class day
MARCH 21:	Classes Begin
MAY:	Annual Inspection of Air and Army ROTC
MAY 17:	Honors Day
MAY 27-31:	Examinations
JUNE 3:	Term Ends, Graduation and Alumni Day

SUMMER QUARTER, 1961

JUNE 12-AUGUST 17:

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Volume LX March 16, 1960 Number 8

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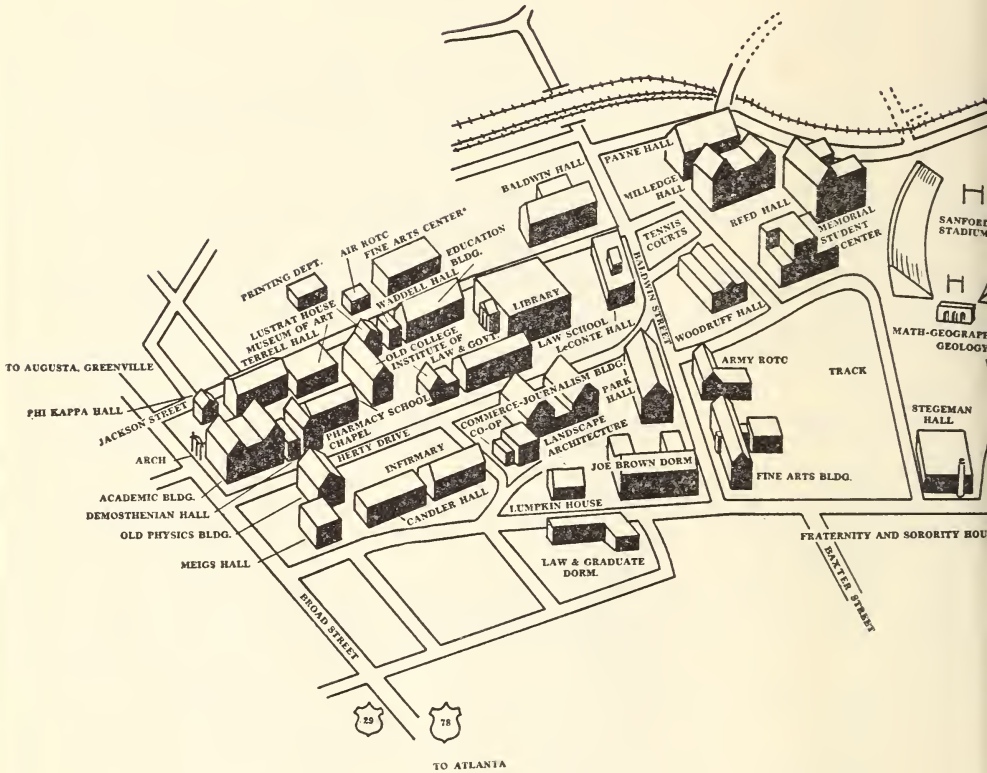
Serial No. 1186

THE UNIVERSITY OF



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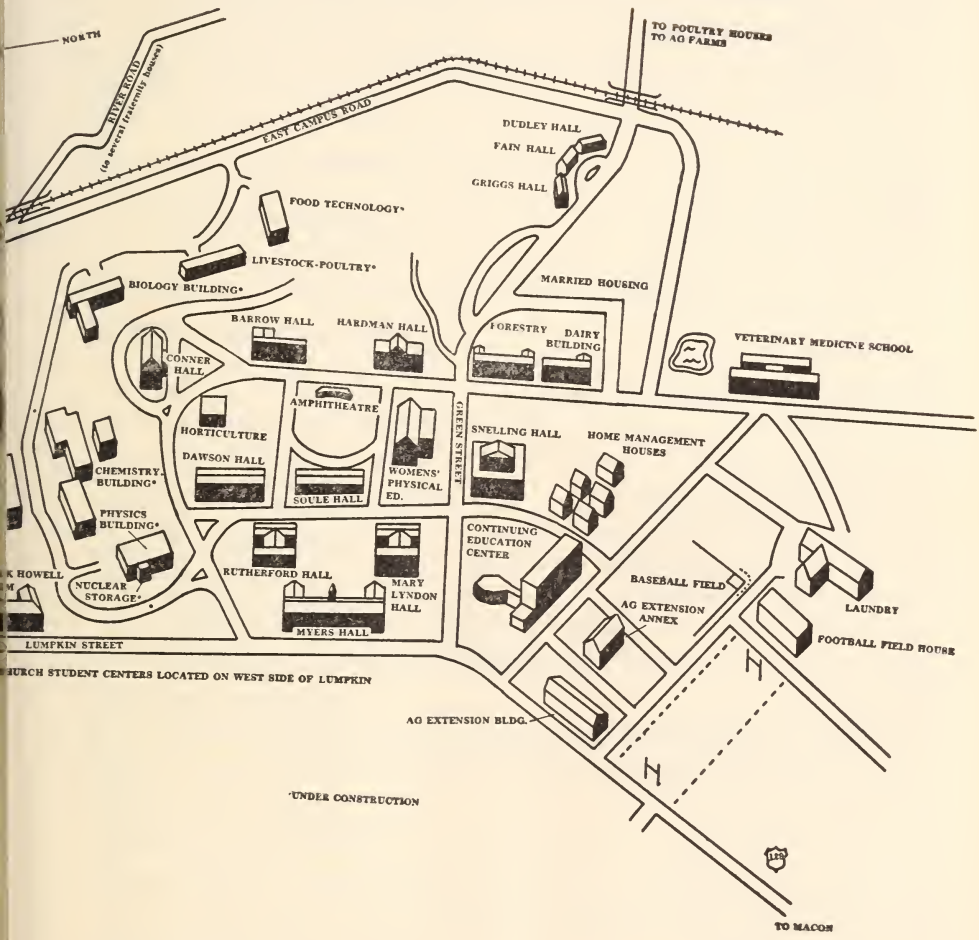

SOUTH CAMPUS

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B.S., Western Kentucky Teachers; M.S.A., Kentucky; D.V.M., Michigan State

JONATHAN JACKSON WESTFALL, *Professor of Botany, Head of the Department of Botany* and *Acting Chairman of the Division of Biological Sciences*
B.S., West Virginia Wesleyan; M.S., Ph.D., Chicago

JAMES WILLIAM WHATLEY, *Assistant Professor of Health and Physical Education*
B.S., Alabama; M.S., Tennessee

ROBERT STEVENSON WHEELER, *Professor of Poultry Husbandry* and *Director of Instruction, College of Agriculture*
B.S., Ph.D., Chicago

ANDREW WILSON WHITE, JR., *Soil Scientist, Tifton, Georgia*
B.S.A., M.S.A., Georgia

**HAROLD DOUGLAS WHITE, *Professor of Agricultural Engineering*
B.S.A.E., Georgia; M.S.A.E., Iowa State

PAUL ELVIN WHITE, *Assistant Animal Husbandman, Experiment, Georgia*
B.S.A., Arkansas State

ELIZABETH LUKE WHITEHEAD, *Assistant Professor of Institutional Management*
B.S.H.E., M.S.H.E., Georgia

THOMAS HILLYER WHITEHEAD, *Professor of Chemistry*
B.S., Georgia; M.A., Ph.D., Columbia

HUBERT HENRY WHITLOW, JR., *Assistant Professor* and *Social Sciences Librarian*
B.A., M.L., Emory

CLYDE WEYDELL WHITWORTH, *Assistant Professor of Pharmacy*
B.S.Pharm., M.S., Georgia

CECIL NORTON WILDER, *Associate Professor of Agricultural Chemistry*
B.S.A., M.S.A., Georgia

BARNETT OSBORNE WILLIAMS, *Professor of Sociology*
B.S., Clemson; M.A., Virginia; Ph.D., Minnesota

**GERALD GORDON WILLIAMS, *Soil Scientist, U.S.D.A.*
B.A., George Pepperdine; B.S., M.S., California; Ph.D., Purdue

JOHN DOWELL WILLIAMS, *Professor of Spanish*
A.B., M.A., Ph.D., Texas

JOSEPH ANDERSON WILLIAMS, *Professor of Education* and *Dean of Students*
A.B., M.S., M.Ed., D.Ed., Georgia

RALPH OTTO WILLIAMS, *Assistant Animal Husbandman, Agricultural Extension*
B.S., Clemson, M.S., Georgia

THOMAS GRIFFITH WILLIAMS, JR., *Assistant Landscape Architect, Agricultural Extension*
B.F.A., Georgia

WILLIAM LAWRENCE WILLIAMS, *Research Associate in Chemistry*
B.S., Minnesota; M.S., Ph.D., Wisconsin

WILLIAM JAMES WISER, *Research Agronomist, Tifton, Georgia, U.S.D.A.*
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ELIZABETH WILSON, *Assistant Professor of Home Economics*
B.S.Ed., Northeast Missouri State Teachers; M.S., Virginia Polytechnic Institute

ROBERT CUMMING WILSON, *Dean Emeritus of the School of Pharmacy*
Ph.G., University of the South

ANNIE VIRGIL WOMACK, *Assistant Professor of Modern Foreign Languages*
B.F.A., M.A., Georgia

HERBERT WOMACK, *Entomologist, Tifton, Georgia, U.S.D.A.*
B.S., M.S., Mississippi State

**Also on College Experiment Station Staff.

**EDGAR HINTON WOOD, *Research Associate* and *Agricultural Engineering Aide, U.S.D.A.*

NORMAN JEWEL WOOD, *Associate Professor of Business Administration*
A.B., Tusculum; M.A., Ph.D., Columbia

OTIS WOODARD, *Horticulturist* and *Head of the Department of Horticulture, Tifton, Georgia*
B.S.A., Georgia

DONALD WEBSTER WOODHAM, *Analytical Chemist, Tifton, Georgia, U.S.D.A.*
B.S., Jacksonville State (Alabama)

JASPER GUY WOODROOF, *Alumni Foundation Distinguished Professor, Food Technologist, Head of the Department of Food Technology* and *Chairman of the Division of Food Technology, Experiment, Georgia*
B.S.A., Georgia; Ph.D., Michigan State

**ROGER CHARLES WOODWORTH, *Associate Professor of Agricultural Economics*
A.B., New Hampshire; M.S., Ph.D., Iowa State

LUTIAN ROBERT WOOTTON, *Assistant Professor of Education*
B.S., Austin Peay; M.A., Peabody; Ed.D., Virginia

LEONARD TOWNSEND WRIGHT, *Assistant Professor of Business Administration*
B.S., M.B.A., Syracuse

FLORENE YOUNG, *Professor of Psychology*
A.B., Winthrop; M.A., Columbia; Ph.D., Peabody

BRATISLAV ZAK, *Pathologist* and *Project Leader, U.S.F.S.*
B.S.F., Pennsylvania State; M.F., D.F., Duke

MAY ZEIGLER, *Associate Professor Emeritus of Psychology*
A.B., Winthrop; M.A., Georgia

**Also on College Experiment Station Staff.

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Evelyn Mae Fritz, *Associate Director*

John Wyatt Bonner, Jr., *Special Collections Librarian*
Kathleen Drake Broadhurst, *Assistant Professor of Library Science*
Cynthia Constance Burhans, *Assistant Humanities Librarian*
Gertrude Ellington Cantrell, *Assistant Catalogue Librarian*
Robin Nelson Downes, *Assistant Catalogue Librarian*
Frances Katherine Drew, *Assistant Catalogue Librarian*
Josephine Frazier, *Assistant Catalogue Librarian*
Helen Gray Gillam, *Law Librarian*
Pauline Eupha Griffin, *Continuing Education Librarian*
Merne Mable Hines, *Assistant Acquisitions Librarian*
John Bunyan Howell, Jr., *Circulation Librarian*
Florrie Beth Jackson, *Assistant Circulation Librarian*
Anna Elizabeth LaBoone, *Newspaper and Microfilm Librarian*
Sarah Bailey Lamar, *Assistant Social Sciences Librarian*
John David Marshall, *Acquisitions Librarian*
Helen Virginia Michaelis, *South Branch Librarian*
Charlotte Newton, *Assistant Catalogue Librarian*
Vivian Branch Phillips, *Humanities Librarian*
Virginia Templeton Reuss, *Assistant Catalogue Librarian*
Ethel Abernathy Rose, *Catalogue Librarian*
Evalyn Hubbard Rutledge, *Assistant Social Sciences and Catalogue Librarian*
Vivian Margaret Smith, *Assistant Acquisitions Librarian*
Ellen Louise Sumner, *Assistant Science and Catalogue Librarian*
Hubert Henry Whitlow, Jr., *Social Sciences Librarian*

FELLOWS

Melvin Reeves Bently, *Modern Foreign Languages*
Sandra Brown, *Education*
Francis Coyle, *Physics*
Keller Cushing Freeman, *History*
Franklin Mack Gay, *Physics*
Antonio Garza, *Plant Pathology and Plant Breeding*
Darrough Odell Hamilton, *Mathematics*
Alice Ann Hardigree, *Microbiology*
Arthur J. Hawley, *Geography*
Ann Marie Manning, *Microbiology*
Claude Donald Norman, *Physics*
Nelson R. Nunnally, *Geography*
Clarence Wayne Patty, *Mathematics*
Reuben J. Smith, *Microbiology*
Ronald K. Spence, *Chemistry*
Alan S. Todd, *Dairy*
Ruth Jane Washington, *English*
Joy Eller Williams, *Bacteriology*

GRADUATE ASSISTANTS

Beverly Ann Bach, *Art*
Shelia Chatfield Bailey, *Education*
Budd H. Bishop, *Art*
Rebecca Ann Burgess, *Modern Foreign Languages*
Thelma Jean Call, *History*
Frank Hua-Tsin Chou, *Education*
Earl Wallace Cory, Jr., *History*
Armand Joseph Desmarais, *Food Technology*
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Robert W. Fortenbach, *Agricultural Economics*
Barbara Rainwater Foster, *Music*
Frances P. Gotesky, *Education*
Joe Moore Johnson, *English*
Wright Sinquefield Jordan, *Plant Pathology and Plant Breeding*
Richard O. Kuehne, *Food Technology*
Ann Deloris Kirby, *Speech and Drama*
Aloysius John Knipper, *Food Technology*
Richard O. Kuehne, *Food Technology*
Frederick Arlene Drexel Lee, *Education*
Yur Bok Lee, *History*
Monte Markham, *Speech and Drama*
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John Phillip Posey, *History*
Robert L. Reynolds, *Psychology*
Janice Louise Sapp, *Education*
Frances E. Saxon, *Education*
Ann Louise Schlosser, *Art*
Sonya Norma Schulz, *Art*
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Homer Franklin Sharp, Jr., *Zoology*
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Dorothy Allen Stafford, *Geography*
Pauline Louise Stewart, *Political Science*
Nancy Ann Stone, *Modern Foreign Languages*
Martha LaVern Thomas, *English*
Martha June Watts, *Education*
Norma Jean Young, *Art*

TEACHING ASSISTANTS

Millard E. Agerton, *Chemistry*
Arthur B. Amerson, *National Science Foundation Institute*
Carol Ann Barrett, *Psychology*
Curtis Porter Bell, *Mathematics*
Anthony Blackbourn, *Geography and Geology*
Marion J. Blanchard, *Mathematics*

David W. Bradberry, *Physics*
Anita Butler Brannen, *Modern Foreign Languages*
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Richard B. Budge, *Geography and Geology*
Francis Marion Bush, *Zoology*
Shirley G. Carmack, *Sociology and Anthropology*
Edgar Chambers, III, *Business Administration*
Henry Clay, Jr., *Horticulture*
Morris Lee-Jackson Crawford, *Psychology*
Thomas M. Deaton, *History*
Michael Alan Donahue, *Mathematics*
John Riley Eadie, *Forestry*
Donald Eberhart, *Poultry Husbandry*
Manolita Fernandez, *Modern Foreign Languages*
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Odell D. Hamilton, *Mathematics*
Larry Hamrick, *Plant Pathology and Plant Breeding*
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William Thomas Jenkins, *History*
Brooke Johnson, *Psychology*
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Marcelle H. Purcell, *Geography and Geology*
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Marilyn P. Quiros, *Modern Foreign Languages*
Thomas Henry Rodgers, *Business Administration*
James D. Satterfield, *Zoology*

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VIRGINIA SISK SHACKELFORD, *Business Administration*
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HERRICK HAYNER SMITH, *Landscape Architecture*
STEPHEN L. SMITH, *Modern Foreign Languages*
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LOUISE K. STEINBERG, *Education*
WILLIAM LEON STOCKWELL, *Geography and Geology*
JOSEPHINE L. STRICKLAND, *Education*
RAY KENNETH STRICKLAND, *Forestry*
BENEE FRANK SWINDEL, *Forestry*
CLOVIS C. TANNER, *Modern Foreign Languages*
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JAMES TURNER, *Education*
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CHUNG LEE WANG, *Mathematics*
PAUL WARD, *Education*
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HAROLD WHEELER, *Education*
STEWART L. WIGGINS, *Psychology*
BRITAIN J. WILLIAMS, *Mathematics*
ROGER WILLIAMS, *Plant Pathology and Plant Breeding*
HENRY DAVID WILSON, *Business Administration*

RESEARCH ASSISTANTS—GRADUATE

JAMES N. ADAMS, *Bacteriology*
ELIZABETH ADERHOLD, *Education*
JERRY C. ALLEN, *Speech Correction (Education)*
MERRITT ANDERSON BOONE, *Poultry Husbandry*
JAMES CARL ARNOLD, *Forestry*
DURHAM BELL, *Plant Pathology and Plant Breeding*
JOSEPH BOOKER, *Education*
WILLIAM S. BROUGHTON, *Botany*
BILL BROWN, *Poultry Husbandry*
FRANCIS M. BUSH, *Zoology*
LARRY CALDWELL, *Zoology*
JUAN CELECIA, *Agronomy*
JAMES R. COCHRAN, *Agricultural Economics*
CARL SIGLER CORBIN, *Poultry Husbandry*
DAVID CUMMINS, *Agronomy*
DELANO DEEN, *Forestry*
ROBERTO DIAZ, *Agronomy*
HARI DUBEY, *Agronomy*
MARCUS EICHHORN, *Agronomy*
JEROME ETHEREDGE, *Agronomy*
ROBERT PARK EVERETT, *Mathematics*
BEHAEDDIN S. FAKHRNEA, *Poultry Husbandry*
AUBREY FINCH, *Education*
ED FINCHER, *Bacteriology*
EUGENE FINNEGAN, *Dairy*
ROBERT SHAW FLETCHER, *Horticulture*
JOHN B. GENTRY, *Zoology*
JAMES GIBBS, *Agronomy*

Donald C. Gregg, *Agricultural Economics*
William L. Hanson, *Zoology*
Walt G. Horstman, *Mathematics*
Harvey Hayward Johnson, *Forestry*
Reginald B. Joiner, *Physics*
Herbert Kale, *Zoology*
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Edward J. Kuenzler, *Zoology*
S. J. Lewis, *Education*
William P. Maples, *Zoology*
Robert Barker McDonald, *Forestry*
Edward Menhenick, *Zoology*
Gene Michaels, *Bacteriology*
Robert L. Miles, *Agricultural Economics*
Hong Shin Min, *Zoology*
Donovan D. Moss, *Zoology*
Robert B. Moss, *Agricultural Economics*
Claude D. Norman, *Zoology*
Takashi Ohara, *Poultry Husbandry*
William F. Parrish, *Forestry*
Charles E. Perry, *Agricultural Economics*
G. R. Reddy, *Agronomy*
Raffaele M. Roncalli, *Poultry Husbandry*
Stella Schmittner, *Zoology*
Homer Sharp, *Zoology*
Robert T. Sherrill, *Chemistry*
Leonard P. Spadafino, *Chemistry*
Richard Stanovick, *Agronomy*
Nelle Still, *Education*
Wallace Tarpley, *Zoology*
Eric F. Thompson, *Zoology*
Ernest Grady Torrance, *Agricultural Economics*
Rochelle D. Walker, *Chemistry*
William M. Walter, Jr., *Chemistry*
Bennie Jack Warren, *Forestry*
Wendall Weaver, *Education*
Kathryn E. White, *Speech Correction (Education)*
Thomas K. White, Jr., *Agricultural Economics*
William K. Willard, *Zoology*
Augustus K. Williams, *Bacteriology*
David H. Williams, *Agricultural Economics*
Robert Franklin Williams, *Forestry*
Curtis Talmadge Wilson, *Forestry*
John Zyngas, *Plant Pathology and Plant Breeding*

GENERAL INFORMATION

THE UNIVERSITY

HISTORY

The University of Georgia was incorporated by an Act of the General Assembly on January 27, 1785. In the preceding year the General Assembly had set aside 40,000 acres of land to endow a college or seminary of learning. Georgia was the first state to provide for the establishment of a state-supported university.

The first meeting of the Board of Trustees was held in Augusta on February 13, 1786. At this meeting the Trustees selected Abraham Baldwin as president of the University. Baldwin, a native of Connecticut and a graduate of Yale University, had come to Georgia in 1784. It was he who drafted the charter adopted by the General Assembly.

The University was not actually established until 1801. In that year a committee of the Board of Trustees selected a site for the new institution. John Milledge, later a governor of the state, purchased the site chosen—a tract of 633 acres on the banks of the Oconee River in Northeast Georgia—and gave it to the Board of Trustees. In the fall of 1801 Josiah Meigs was named president of the University and work was begun on the first building. This building, originally called Franklin College in honor of Benjamin Franklin, is still standing and is now known as Old College. The University opened its doors to students in 1801 and graduated its first class in 1804.

During the early part of the nineteenth century the curriculum of the University of Georgia—or of Franklin College as it was then frequently called—embraced only courses in traditional classical studies. In 1843 the scope of the work of the institution was broadened by the offering of courses in law. The activities of the University were broadened still further in 1872 when the institution was designated to receive Federal funds provided for instruction in agriculture and the mechanical arts.

After the turn of the century the activities of the University expanded rapidly to meet the demands for various types of professional and technical training. The teaching and research work of the University is now carried on by eleven colleges and schools and by a division which is an integral part of the University. These colleges and schools and the dates of their establishment as separate administrative units are as follows: College of Arts and Sciences, 1801; School of Law, 1859; School of Pharmacy, 1903; College of Agriculture, 1906; School of Forestry, 1906; College of Education, 1908; Graduate School, 1910; College of Business Administration, 1912; School of Journalism, 1915; School of Home Economics, 1933; School of Veterinary Medicine, 1946. The Division of General Extension, now The Georgia Center for Continuing Education, was incorporated into the University July 1, 1947.

In 1931 the General Assembly of Georgia placed all publicly supported schools and colleges, including the University of Georgia, under the juristion of a single board. The organization set up by the Act of 1931 is known as the University System of Georgia and the governing board of the System is called the Board of Regents. The executive officer of the Board of Regents, known as the Chancellor, exercises a general supervisory control over

all institutions of the University System. Each one of the institutions comprising the University System has its own executive officers and faculty.

GROUNDS AND BUILDINGS

The first buildings of the University were constructed in the primeval forest of North Georgia, far distant from any town of consequence. About the University community the town of Athens grew up. Although Athens is now one of the larger and more important cities of the state, it retains much of the beauty and charm of the Old South.

The North Campus of the University lies in the very heart of Athens. On this campus are located buildings that house the College of Arts and Sciences, the School of Law, the School of Pharmacy, the College of Education, the College of Business Administration, and the School of Journalism. Here also are a dining hall and six dormitories for men students. Thirty-three principal buildings are located on this campus. Among these buildings are Old College (1801), New College (1832), Demosthenian Hall (1824), the University Chapel (1832), and Phi Kappa Hall (1834).

Close to the Landscape Architecture Building is the Ladies' Garden Club Founders Memorial Garden, consisting of a series of formal and naturalistic developments.

On the South Campus, which is separated from the North Campus by a wooded ravine, are situated the buildings that house the College of Agriculture, the School of Forestry, the School of Home Economics, the School of Veterinary Medicine, the Georgia Center for Continuing Education and the newly constructed Science Center. One portion of this campus is set aside for buildings that are used by women students. There are twenty-eight major buildings on the South Campus.

The campuses of the University and the adjacent lands used by the College of Agriculture and the School of Forestry embrace approximately 3,500 acres.

Names and locations of buildings are shown on the Campus Map in the front of this catalogue.

LIBRARIES

On June 30, 1959, the Libraries of the University contained 384,836 volumes besides many manuscripts, maps, and pamphlets. Material is being constantly added in the support of current teaching and research. During recent years grants from educational foundations and special allocations of funds have contributed to the general strengthening of the collections and to the expansion of resources for graduate study.

The collections of particular value are the famous DeRenne Library of Georgia and southern historical material, containing the original Constitution of the Confederate States; the Moore collection of southern history; the Keith Read Collection of Georgia manuscripts; some early Georgia colonial manuscripts which were once the property of the Earl of Egmont, first president of the Trustees of the Georgia Colony; and the mathematical collection which, as the result of acquiring the 13,000-volume library of the American Mathematical Society in 1951, is one of the best in the country.

The University Libraries serve as a depository for publications of the United States government and maps issued by the Army Map Service. The document collection has been augmented by acquisition of many publications

of the states and by the publications of the League of Nations and of the United Nations.

Current subscriptions are maintained for more than 3,300 periodicals and newspapers. Many of the publications of the important universities and scholarly societies are also received.

In addition to the facilities of the General Library in the Ilah Dunlap Little Memorial Library, special services are provided for the College of Agriculture and the Schools of Forestry, Home Economics, Law, and Veterinary Medicine. The Alexander C. King Law Library is located on the second floor of Harold Hirsch Hall and contains approximately 40,000 well-selected volumes. The branch on South Campus houses some 33,000 volumes, and serves the various teaching departments on that campus.

The resources of all branches are catalogued in the General Library and the resources of all units are available on equal terms to the students and faculties of all colleges and schools.

Rules and regulations governing the use of books are designed to achieve the greatest usefulness of the collections to the University community. The stacks are open to both members of the faculty and to students. Most books, except reference works, periodicals, and material used in class assignments, are lent for two weeks.

The main library is open from 8:00 A. M. to 10:30 P. M. Monday through Friday, from 8:00 A.M. to 5:00 P.M. on Saturday, and from 2:00 to 6:00 P.M. on Sunday. While the hours of the branch libraries vary to meet the particular needs of the clientele, they are open approximately the same total time, adequately providing for examination and use of material not available for use outside the building.

LABORATORIES

The new Science Center consists of six buildings housing the Biological Sciences, Chemistry, Physics, Mathematics-Geography and Geology, Food Technology, and Livestock and Poultry. All have laboratories that are well equipped for instruction and original research. There are a number of private laboratories for the use of professors and advanced graduate students. The School of Pharmacy, the College of Agriculture, the School of Forestry, the School of Home Economics, and the School of Veterinary Medicine have extensive laboratory facilities for the use of their students and faculties in their work in the fields of applied science. The College of Business Administration has recently acquired many business machines of the latest type for use in courses in accounting and business procedures. The School of Journalism maintains a press room and radio-television studio as a means of offering practical training to its students.

THE COLLEGE YEAR

The college year is divided into four quarters of approximately eleven weeks each. The fall quarter begins the latter part of September and ends at the Christmas holidays. The winter quarter begins during the first week in January and extends to the middle of March. The spring quarter begins in March and ends in the early part of June. The summer quarter begins in June and closes in the latter part of August. The exact date on which quarters begin and end will be found in the University Calendar.

New courses are begun each quarter. It is possible, therefore, for students to enter the University at the beginning of any quarter.

Degrees are conferred at the close of the spring quarter in June and at the close of the summer quarter in August. Students completing their work in December or March will, on their request be given a certificate to the effect that all degree requirements have been satisfied. Such students receive their diploma in June following the completion of their work.

ADMISSIONS

SCHOLASTIC AND PERSONAL REQUIREMENTS

The applicant must be at least sixteen years of age and of established good moral character. The University reserves the right to examine and investigate the moral worth, character, and personality of the applicant.

THE COLLEGE ENTRANCE EXAMINATION BOARD'S SCHOLASTIC APTITUDE TEST is required of all applicants for admission. The results of the test must be filed with the Director of Admissions by the required date. Information about these requirements for each registration period can be secured from the Director of Admissions. The high school principal or counselor will supply the necessary information for making application to take the CEEB Scholastic Aptitude Test, or the applicant may write directly to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

APPLICATION FOR ADMISSION FORMS WILL BE PROVIDED BY THE DIRECTOR OF ADMISSIONS on request. Completion of all application forms and of all requirements contained therein is mandatory on each applicant before his request for admission can be considered. No application form will be considered unless received at least twenty days prior to the registration date. The University reserves the right to terminate acceptance of application forms when enrollment limits are reached.

Any RESIDENT of Georgia applying for admission to an institution of the University System of Georgia shall be required to submit certificates from two citizens of Georgia, alumni of the institution that he desires to attend, on prescribed forms, which shall certify that each of such alumni is personally acquainted with the applicant, that he is of good moral character, bears a good reputation in the community in which he resides, and, in the opinion of such alumnus, is a fit and suitable person for admission to the institution and able to pursue successfully the courses of study offered by the institution he desires to attend.

Each such applicant shall also submit a certificate from the Ordinary or Clerk of the Superior Court of the county in which the applicant resides that such applicant is a *bona fide* resident of such county, is of good moral character and bears a good reputation in the community in which he resides.

Any NON-RESIDENT of the State applying for admisison to an institution of the University System of Georgia shall submit a similar certificate from two alumni of the institution that he desires to attend, or from two reputable citizens of the community in which the applicant resides.

Every such applicant shall also submit a certificate from a judge of a court of record of the county, parish or other political subdivision of the State in which he resides that he is a *bona fide* resident of such county, parish or other political subdivision and a person of good moral character and bears a good reputation in the community in which he resides.

The applicant must have a minimum of 16 units from an accredited high school, in the following fields:

English—4; *Mathematics—2 or 3 (one must be in Algebra); Social Studies—2; Natural Sciences—2; Other academic units—4; Others—2 or 1.

The University reserves the right to reject the credits from any high school or other institution notwithstanding its accredited status, where the University determines either from investigation or otherwise, that the quality of instruction available at such high school or institution is for any reason deficient or unsatisfactory.

The Director of Admissions or the Admissions Committee may take into consideration the overall high school scholastic record, scores made on aptitude and achievement tests, personnel data and personal recommendations in determining a waiver of one or more of the prescribed units, other than English.

Fractional credits of a value of less than one-half unit will not be accepted. Not less than one unit of work will be accepted in a foreign language.

Applicants who qualify under the above unit requirements must have a predicted grade point average (based upon high school record, College Entrance Examination Board scores, and other pertinent data as determined by the Admissions Committee of the University) which indicates that the applicant has the potential to pursue effectively the educational program of the University.

If the application forms, CEEB, Scholastic Aptitude Test scores, and other required records of the aplicant are found to be complete and in proper order, the applicant will be evaluated in terms of his predicted grade point average, scholastic aptitude, biographical data, social and psychological adjustment, and the probability of his completing the requirements for the desired degree.

Each applicant must give evidence of good moral character, promise of growth, seriousness of purpose, and a sense of social responsibility. The University reserves the right, in every case, to reject any applicant whose general records and attitude do not indicate success in the University environment, notwithstanding the completion of other requirements. The University reserves the right to examine further any applicant extensively by the use of psychological, achievement, aptitude tests, and personal interview.

An Applicant May Be Admitted by Presenting a State Department of Education Certificate of High School Equivalency or By Passing Entrance Examinations These methods of admission are confined to persons over 21 years of age and to veterans whose secondary schooling was interrupted by military service. In general, the General Educational Development Tests, High School Level, will be used as a testing measure under this section. *No student having attended secondary school during the previous twelve months will be eligible for admission by this method.*

The Admissions Committee and/or the academic dean shall review any application directed to them by the Director of Admissions for total study and subsequent recommendation to the Director of Admissions.

Acceptance or rejection of each and every application will be determined by the Director of Admissions, subject to the right of appeal as provided in the Statutes of the University of Georgia and the Board of Regents of the University System.

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*Three units in mathematics are required for students applying for admission to the degree programs, B.S., B.S. Chemistry, and B.S. Agricultural Engineering. One unit each in Algebra and Plane Geometry are required for these programs.

TRANSFER STUDENTS

Transfer students must comply with the foregoing regulations relative to the admission procedures, requirements, and dates for filing the completed application with the Office of the Director of Admissions.

Transfer applicants must comply with the policy of the Board of Regents in furnishing the certificate described in the University catalogue, and included in the official application for admission form.

The applicant must request that official transcripts showing evidence of studies pursued at all other colleges or universities be sent to the Director of Admissions. These transcripts must furnish a statement of honorable dismissal. Completion of ALL application forms is required of each applicant for admission by transfer from another institution before his request for admission can be considered. It should be understood that only those applicants will be admitted whose past records indicate a favorable prospect of successful study with the faculty and with the other students in the University. Every transfer student seeking admission will be evaluated for aptitude, achievement, motivation, social and psychological adjustment, and scholastic performance and probability of completing the requirements for a degree. The University reserves the right to examine further any applicant extensively by the use of psychological, achievement, aptitude tests, and personal interview.

Comprehensive-achievement tests will be required of students entering the Junior class.

The University reserves the right to deny admission to any student applying for transfer to the University when, in the opinion of the Director of Admissions, the academic standards or the admission procedures of any institution previously attended are not equivalent or comparable to those existing at the University.

When a transfer applicant's qualifications are in question, the Director of Admissions, at his discretion, will refer the application in totality to the appropriate academic dean and/or the Admissions Committee for review and recommendations.

Acceptance or rejection of each and every application will be determined by the Director of Admissions, subject to the right of appeal as provided in the by-laws of the University of Georgia and the Board of Regents of the University System.

Courses transferred for credit from other colleges or universities must have an over-all grade average of "C". The University reserves the right to limit the amount of transfer credit for courses with the lowest passing grade. Under no circumstances will credit be allowed for courses in freshman English unless the grades received are "C" (73) or better. College credit will not be allowed for such courses as remedial English and remedial mathematics or courses basically of secondary school level.

Credit for specific courses designated as "core curriculum" or "major" courses will not be allowed unless grades received are above the lowest passing grade.

The total number of hours that may be earned toward a degree by either extension or correspondence courses or both shall not exceed one-fourth of the hours required for graduation. The University reserves the right to otherwise restrict the acceptance of the above mentioned type credits.

A student who has been dropped from another institution because of poor scholarship or for disciplinary reasons may not enter the University until such time as he has returned to his former institution and/or has been removed from probation.

The amount of credit that the University will allow for work done in another institution within a given period of time may not exceed the normal amount of credit that could have been earned at the University during that time. A maximum of 96 academic quarter hours from a junior college, or 141 academic quarter hours from a senior college may be applied toward a degree; however, most programs require a minimum of 90 quarter hours in residence.

Transfer students shall be allowed to transfer not more than 20 percent of the hours transferred in D grades, provided that said students' overall grade average for the hours transferred is C or better. Credit for courses with the lowest passing grade may be given upon successful completion of a validating examination taken during the first quarter of residence. Application to take these examinations should be made to the Registrar.

Ten quarter hours of English composition with an average grade of C (73) is required for all undergraduate degrees from the University of Georgia. (This applies to all students entering in September, 1956 and thereafter).

The General Educational Development Tests, College Level, will be administered to veterans at the University Guidance Center in accordance with University regulations. Students with no previous college work should apply directly to the Director of the Center after admission is granted and prior to registration. Students with previous college work must apply for permission to take these tests through the Registrar. In general, this permission will not be granted if work has been pursued in the field or a related field of the subject area involved on the individual tests.

United States Armed Forces Institute (USAFI) courses are not recognized by the University unless they are completed through an accredited institution and provided that that institution grants recognized college credit for same. Such courses are regular correspondence courses and are administered under the Cooperating College Program of USAFI.

Inquiries concerning In-Service training should be directed to the Registrar. Evaluations of this training will not be made until such time as the student registers for residence credit on the University Campus.

GRADUATE AND PROFESSIONAL STUDENTS

Professional and graduate programs will have requirements in addition to those stated above. The interested applicant is directed to the appropriate sections of the catalogue.

The University reserves the right to reject any applicant whose low record indicates that he is not adequately prepared to do college work even though he may meet the entrance requirements set forth above.

INITIAL ADMISSION REQUIREMENTS FOR CERTAIN AGES

State law restricts the initial admisison to the undergraduate programs of applicants who have reached twenty-one (21) years of age and restricts the initial admission to the graduate and professional programs of applicants who have reached twenty-five (25) years of age. Certain veterans,

teachers, and those in certain other categories specified by the Board of Regents are exempt from this provision.

IRREGULAR STUDENTS

The policy of the University is not to allow students who can meet the entrance requirements (especially those under 21 years of age) to take irregular programs of work. Students who are granted special permission to pursue such a program will be classified as irregular students.

CHOICE OF SCHOOL OR COLLEGE

For a full explanation of each of the divisions of the University consult the section of the catalogue referring to that particular college or school. A student should register in the school or college in which his major interest lies.

If a student is undecided on his college or school, he should register in the College of Arts and Sciences.

In order to transfer from one school or college to another it is necessary to secure permission of the dean in whose school the student is enrolled and the permission of the dean of the school to which he expects to transfer.

DEGREES OFFERED BY COLLEGES AND SCHOOLS OF THE UNIVERSITY

The University offers courses of instruction leading to the following degrees:

1. In the Graduate School the advanced general degrees of Master of Arts, Master of Science, and Doctor of Philosophy and the advanced professional degrees of Master of Business Administration, Master of Chemistry, Master of Education, Master of Forestry, Master of Home Economics, Master of Art Education, Master of Music Education, Master of Landscape Architecture, Master of Laws, Master of Fine Arts, and Doctor of Education.

2. In the College of Arts and Sciences, the degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Chemistry, and Bachelor of Science in Physics.

3. In the School of Law, the degree of Bachelor of Laws.

4. In the School of Pharmacy, the degree of Bachelor of Science in Pharmacy.

5. In the College of Agriculture, the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Agricultural Engineering, Bachelor of Science in Landscape Architecture, and Bachelor of Landscape Architecture.

6. In the School of Forestry, the degree of Bachelor of Science in Forestry.

7. In the College of Education, the degree of Bachelor of Science in Education.

8. In the College of Business Administration, the degree of Bachelor of Business Administration.

9. In the School of Journalism, the degree of Bachelor of Arts in Journalism.

10. In the School of Home Economics, the degree of Bachelor of Science in Home Economics.

11. In the School of Veterinary Medicine, the degree of Doctor of Veterinary Medicine.

A student who satisfactorily completes advanced Military or Air Science may be awarded a commission as Second Lieutenant in the U. S. Army or U. S. Air Force in conjunction with the degree.

A graduate of any course may receive the baccalaureate degree of any other course by completing the additional studies required in that course and by meeting residence requirements for the second baccalaureate degree.

REGISTRATION AND PENALTIES FOR LATE REGISTRATION

A student who fails to register on the days set aside for that purpose will be subject to the following penalties: For the first day beyond the scheduled dates, $5 and for each succeeding day up to and including the fourth day, $2; or a total of $11.

No student will be admitted, except by special permission, after the expiration of the fifth day beyond the scheduled registration days.

An applicant for admission whose credentials have been passed upon favorably by the Director of Admissions should present himself at the Registrar's office. The applicant will receive from the Registrar a statement showing the procedure for registration. A student will not be permitted to attend classes in a course for which he is not registered.

PHYSICAL EXAMINATIONS

All new students (freshmen, transfers and former students who have been absent from the University for over three quarters) must have a fully completed physical examination form on file with the Department of Student Health at least ten days prior to registration.

The physical examination performed by the student's family physician within three months prior to registration should include a report of a tuberculin test or x-ray of chest. Only if the tuberculin test is positive, is an x-ray of chest required. The opinion of the examining physician as to physical capability of student to participate in ROTC and/or Physical Education is desired.

Those students entering for summer session only are not required to submit physical examination forms.

The University Registrar will send the physical examination blanks with the notification of acceptance for admission. After the student's family physician has fully completed these forms they must be mailed to the Department of Student Health, Gilbert Memorial Infirmary.

FRESHMAN REGISTRATION

The opening week of the fall quarter registration period in September is called "Orientation Week." It is a period designed to introduce freshmen to the University. This period will be devoted to aptitude tests, lectures, conferences with advisers, introduction to campus activities, and registration. This week is set aside for new students who attend all scheduled events.

PLACEMENT EXAMINATIONS

These tests are required of all students with less than sophomore classification (40 academic hours exclusive of Physical Education and Basic Military). All students taking these tests late will be charged a late test fee of $3 for each session missed.

HOUSING FOR STUDENTS

Residence halls situated on the University campus accommodate approximately twenty-nine hundred students. Additional housing facilities at fraternity and sorority houses, religious student centers, YMCA and YWCA are also available to students. Private homes and boarding houses list available space for single and married students with the University Housing Offices. The University does not reserve this housing since arrangements for these units are made by personal interview between house owners and the individual applicant. All communications on housing should be addressed to Director of Men's Housing or Director of Women's Housing.

RESIDENCE HALLS FOR MEN

An advance room reservation fee of $25 is required of all students for the Fall Quarter, but is not required for other quarters unless the student is entering for the first time. DO NOT SEND CASH. Make check or money order payable to the University of Georgia Housing Department and attach it to your application for housing. This reservation fee is not refundable, but will be deducted from room charges payable at time of registration.

If a student does not appear to occupy a room, or if official notification of a delay is not filed within the first five days of a quarter, the University reserves the right to cancel the reservation and to assign the room to another student. Once a University student accepts a dormitory assignment, he is obligated for the full quarter's rent, and he is expected to occupy the room for the entire quarter. Failure to occupy the room for the full quarter or any portion thereof does not release him from this obligation.

All freshmen, excluding veterans, married men, and those living with their parents or relatives, are required to live for one year in a dormitory, under the supervision of the Resident Counselor for Freshman Men.

The room rate on dormitories on North Campus listed below is $71 to $75 per quarter and for South Campus $61 per quarter including flat work laundry. The laundry is picked up from the dormitory and returned once a week. Optional laundry consisting of wearing apparel is offered at an additional charge.

All rates are based on occupancy of two or more students per room. Rate for single occupancy if available will be an additional $25 per quarter. The Director of Housing reserves the privilege of granting or assigning single occupancy.

North Campus Dormitories are Candler Hall, Joe Brown Hall, Law-Graduate, Milledge Hall, Payne Hall, and Reed Hall. Convenient dining facilities are at Memorial Hall. Rate for meals is approximately $133 per quarter.

South Campus Dormitories are Dudley Hall, Fain Hall, and Griggs Hall. Convenient dining facilities are at Snelling Hall. Rate for meals is approximately $133 per quarter.

RESIDENCE HALLS FOR WOMEN

The importance of convenient and suitable living arrangements for women students is fully realized by the University, which provides residence halls for all women students not living in town with their families. Women students are required to live in University residences. The only exceptions are: Married students, graduate students, those living with close relatives and those who are 23 years of age who have parental permission and a clear conduct record.

A housing preference form will accompany the official acceptance notice from the Director of Admissions. A full quarter's room rent in the amount of $75 is payable in advance, which includes flat work laundry fee of $7. The fee is payable by check or money order to the order of the University of Georgia, and must be attached to the Housing Preference Form. DO NOT SEND CASH. The University of Georgia is not responsible for room deposits by cash. NO DORMITORY ASSIGNMENT CAN BE MADE UNTIL THIS PAYMENT HAS BEEN RECEIVED. Only $50 of this payment is refundable, provided the student cancels prior to July 1 preceding the fall quarter; the remaining $25 is not refundable. No refunds will be made for cancellations received after July 1, preceding the fall quarter, or after December 10 preceding the winter quarter, or after March 5 preceding the spring quarter. Notice of withdrawal of room assignments with request for refund must be given in writing to the Director of Women's Housing.

If a student does not appear to occupy a room, or if official notification of a delay is not filed within the first five days of a quarter, the University reserves the right to cancel the reservation and to assign the room to another student.

Clark Howell Hall, Mary Lyndon Hall, Rutherford Hall, and Soule Hall, located on South Campus and Lucy Cobb, have accommodations for 197, 148, 156, 116, and 104 women students, respectively.

Jennie Belle Myers Hall is divided into three separate units. North Myers will accommodate 159 students; South Myers will accommodate 163 students; and Center Myers will accommodate 158 students.

The Room Rate for women's dormitories is $75 per quarter including flat work laundry. Laundry allowance per week for women is one spread, two sheets, one pillow case, six towels and two wash cloths.

Dining Facilities are conveniently located. All freshman women students residing in University residence halls will have their meals in University dining halls. The rate for meals is approximately $133 per quarter and will be added to charges at registration.

All rates are based on occupancy of two or more students per room. Rate for a private bath will be an additional $10 per quarter. Rate for those occupying suites will be an additional $5 per quarter. The Director of Housing reserves the privilege of granting or assigning single occupancy.

Dormitory Facilities for Men and Women Students. University operated residence halls are open at 10 A. M. the morning of the day prior to the first day of registration and are closed at 10 A. M. the day following the last scheduled date of examinations at the end of a quarter.

The University can not assume responsibility for valuables kept in the student's room.

All rooms in the residence halls are furnished with single beds or double deckers, chairs, study tables, clothes cabinet or closet, and dressers or chest

of drawers. Students are expected to furnish pillows, bed linens, blankets, and towels. It is suggested that students bring study lamps, dresser scarfs, and small rugs. Use of extra electrical appliances such as pressing irons, hot plates, heaters, etc., is not allowed in student rooms.

Housing for Married Students. Apartments for married students are provided on the University campus, 37 units for married students without children, and 223 units for those with children. These units include efficiency apartments, one-, two- and three-bedroom prefabricated units. Assignments to these units are made from a waiting list which is established according to date of the married housing application filed with Director of Men's Housing. Prefabs, including water, rent for $25 to $32 per month unfurnished and $29 to $40 per month furnished. Applications for housing for married students may be made before official acceptance by requesting married housing form from Director of Men's Housing.

Dining Hall. There are two University-operated dining halls situated conveniently to serve all the resident students. Each dining hall is supervised by a trained dietitian.

Laundry Service. The University operates a laundry as a convenience to its students and as a safeguard to their health. The quarterly charge made for dormitories includes the cost of flat work laundry.

Room and Board Refunds. A student withdrawing from the University will be charged a daily rate for room and board from the beginning of the quarter to the date of withdrawal. After deductions for these charges have been made, the balance of the student's payments will be refunded to him at the end of the quarter. No refund of matriculation and room fees is made in case of a disciplinary suspension.

Payments for room and board will not be refunded to a student who, while continuing as a student in the University, moves to a private home or to a sorority or fraternity house, or who ignores a room assignment.

Room and Board in Fraternity and Sorority Houses. The majority of the local chapters of fraternity and sorority organizations at the Univeristy maintain a house which provides room and board for its members. There are fourteen sororities and twenty-five fraternities at the University.

All fraternity and sorority houses are under the general supervision of the office of the Dean of Students and his associates. All sorority houses and several of the fraternity houses have house directors who exercise an immediate supervision over the activities of the houses. Only those women students who have lived on the campus for at least one quarter and who are of sophomore standing or above will be permitted to live in sorority house.

Reservation of Right to Change Fees and Regulations. The University reserves the right to make changes in its fees, charges, rules and regulations at the beginning of any quarter and without previous notice. This right will be exercised cautiously.

PROGRAMS FOR VETERANS

The University has a Veterans Division, which advise with former service men and women. The United States Congress has passed Public Law 894 assisting disabled veterans, and Public Law 550 which provides for other service men and women who were in the armed forces more than ninety days. Veterans applying under Public Law 550 should secure and fill out Form 7-1990 and forward it to the Veterans Administration to

secure a Certificate for Education and Training which provides for an educational allowance.

The University has provided a Director to assist veterans in securing admission to the University of Georgia and in counseling with them about personal matters and problems. The veteran is advised to have available $250 to cover expenses for the first quarter as government subsistence checks will not arrive for two or three months after training begins.

On the campus is located a Guidance Center which offers its services to all students. Occupational tests and guidance are afforded students enrolled under Public Law 550 after they have secured a Certificate for Education and Training.

ACADEMIC REGULATIONS

UNITS OF CREDIT

The unit of credit is the quarter hour. A quarter hour represents one hour of class work per week for one quarter or its equivalent in other forms of instruction. Two or sometimes three hours of laboratory work are considered as the equivalent of one hour of class work. The majority of the courses offered in the University meet five times per week for one quarter; such courses carry a credit of five quarter hours.

GRADING SYSTEM

Quarter grades are reported by alphabetical letter only, although they are commonly based on averages of numerical grades given on daily work and final examinations. In figuring numerical averages the Registrar's Office uses the digit 8 for + grades and 3 for the letter only. The scale of letter grades is as follows:

A+	95-100	Exceptional
A	90- 94	Excellent
B+	85- 89	Very Good
B	80- 84	Good
C+	75- 79	Average
C	70- 74	Fair
D+	65- 69	Poor
D	60- 64	Very Poor
E	Condition	
F	Failure	
I	Incomplete. This grade indicates that a student although doing satisfactory work was, for some reason beyond his control, unable to complete the course.	
W	This grade indicates that the student was permitted to withdraw from the course and that no grade was assigned.	
WF	This grade indicates that the student was permitted to withdraw from the course while doing unsatisfactory work. The dropping of a course under these circumstances is equivalent to a failure.	

CHANGE IN GRADES

A grade in a course reported by the instructor to the Registrar and recorded cannot be changed except in the following circumstances:

E may be changed to D if so reported by the instructor within twelve months.

I may be changed to any grade if so reported by the instructor within twelve months.

Any grade will be changed upon a written statement by the instructor that the grade reported was a factual error.

A senior in line for graduation who makes a grade of F or D in his senior year in a course numbered 200 or above necessary for his degree will have the privilege of one re-examination, provided there is no opportunity to repeat the course. Grades in not more than two courses may be thus changed. Permits for a re-examination should be obtained from the Registrar's Office.

CLASSIFICATION OF STUDENTS

In the undergraduate schools and colleges of the University a student will be classified as a freshman, sophomore, junior, or senior, according to the number of quarter academic hours of work he has completed with an average grade of C or better. A student who has completed less than 40 hours of the number of hours required for graduation will be classified as a freshman. A student will be entitled to register as a sophomore when he has completed at least 40 hours; as a junior when he has completed at least 85 hours; and as a senior when he has completed at least 130 hours.

The classification under which a student registers at the beginning of the academic year will continue throughout that year.

Registration for Courses. Any student classified as a junior or senior must give priority at registration to all uncompleted freshman and sophomore courses required for his degree before continuing the major subjects or electives.

COURSE NUMBERS

Courses numbered from 1 to 99 are either non-credit or remedial courses; those numbered from 100 to 199 are designed for freshman and sophomore (junior division) students; those numbered 200 to 299 are mainly sophomore courses but, in special instances when justified by course and curricular requirements, may be given senior division (junior and senior) classification. Courses numbered 300 to 399 are offered primarily for junior and senior students; courses taken by juniors and seniors along with graduate students carry the numbers 400 to 599 for undergraduate and 600 to 799 for graduate students. Courses numbered 800 to 999 are offered only for graduate students.

With the approval of the dean of his college or school, a student may include in his sophomore program as much as one-third of his work in courses falling within the junior-senior group; with the same approval a student may include in his junior-senior program as much as one-third of his work in courses falling within the freshman-sophomore group.

NORMAL LOAD OF WORK

The normal load of work for freshman and sophomore students is 15 hours per quarter, exclusive of Military Science 1-2 or Air Science 5-6, and Physical Education 1-2. The normal load of work for junior and senior students is 15 hours per quarter except where otherwise stated in the published

degree requirements. Veterans must carry 14 hours per quarter to draw full subsistence.

VARIATION FROM THE NORMAL LOAD OF WORK

The dean of a school or college may, at his discretion, authorize the following variations from the normal work load:

1. A minimum load of 10 hours. Except in special cases, a student will not be permitted to drop to a load less than 15 hours. A student who drops to less than 15 hours after the first five days of a quarter will normally receive a grade of WF in the course or courses dropped.
2. An increase of from 1 to 3 hours; (1) When advanced military science is taken or when difficulty in making a practical schedule or a satisfactory program demands it; (2) students who had an average of B on the work of the three preceding quarters may have this privilege during the succeeding three quarters; (3) students who had an average of B in the preceding quarter may have this privilege the succeeding quarter.
3. A maximum of 21 hours may be permitted: (1) students on the current Dean's List; (2) students not on the Dean's List but who had an average of "A" on the work of the preceding quarter; (3) first year transfer students who received an average grade of "A" on their last year's work in the institution from which they transferred; (4) students having 90 academic hours credit with no grade lower than "C" for the preceding quarter and having no "F," "WF," "E," or unremoved "I" for the preceding three quarters. (No student with less than 15 hours in residence is eligible.)
4. An increase of 10 hours (distributed over their last three quarters) for seniors who, at the begining of any quarter, can, with this privilege, be graduated in three quarters.

Under no circumstances is any student permitted to receive credit for more than 21 hours per quarter, exclusive of Military Science 1-2, Air Science 5-6, or Physical Education 1-2.

DEGREE REQUIREMENTS

Residence. The minimum residence requirement for a baccalaureate degree is 90 quarter hours. Exceptions to this requirement may be made under special circumstances upon the recommendation of the curriculum committee of the school or college and with the approval of the Faculty Executive Committee.

Students who present acceptable college credits earned before September 1960, or who are enrolled for a second baccalaureate degree, may satisfy the residence requirements by completing in residence 45 hours in courses numbered 200 and above with an average grade of "C" or better.

If a student elects to satisfy the requirement for the B.S. degree by substituting the first year's work in the Medical College of Georgia or the Georgia Institute of Technology for his last year's work in the University, the residence requirement is 45 hours in courses numbered 200 and above after admission to senior division standing.

Credits and Grades. Each candidate for a degree must secure credit in approved courses totaling at least the number of quarter hours required for a degree by the school or college in which he is registered, exclusive

of courses in Military Science 1-2 or Air Science 5-6, and Physical Education 1-2. In securing this credit each candidate must have an average grade of not less than "C" in all grades received, excluding those in Physical Education 1-2, and must not have grades below "C" in more than one-fourth of the total number of quarter hours earned.

Ten quarter hours of English composition with an average grade of C is required for all undergraduate degrees from The University of Georgia. (This applies to all students entering in September 1956 and thereafter).

The College of Arts and Sciences and several other colleges and schools require for graduation 185 quarter hours, exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2. Some of the schools require a larger number of hours. Under the sections devoted to the several colleges and schools will be found statements of their exact requirements.

Correspondence and Extension Work. Not more than one-fourth of the work counted toward a degree may consist of courses taken by correspondence or extension.

Military and Air Science. All physically qualified freshmen male students must enroll in and complete two years of basic ROTC with the exception of veterans, non-citizens, and those otherwise exempted. The basic courses are Military Science 1-2 or Air Science 5-6.

Physical Education. All non-veteran freshman and sophomore men and all freshman and sophomore women are required to complete with passing grades, Physical Education 1 and 2. Students physically or organically handicapped will be assigned to special Physical Education classes. Students who have finished freshman and sophomore requirements in approved institutions will not be required to take Physical Education 1 and 2.

Examinations on the Constitutions. Examinations on the Constitution of the United States and that of the State of Georgia, required of all persons receiving a degree from the University unless exempted by credit in courses dealing with these Constitutions, are given annually on the first Thursday after Washington's birthday and the first Thursday after the Fourth of July, at 3:30 in LeConte Hall. A series of lectures to aid students in preparing for these examinations is offered during the two weeks preceding the examination in February. Special examinations for students having failed on or been absent from the regular examinations are offered on the first Thursday in May and the first Thursday in November, and in exceptional cases upon other dates.

Examinations on United States and Georgia History. Examinations on the history of the United States and of Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history. These examinations are ordinarily given with the freshman placement tests at the beginning of each fall quarter. Also, this requirement may be satisfied by registering for History 100 and passing the final examination in it. This course carries five hours credit.

Special Requirements. Candidates for degrees from the University must show that they have met all general University requirements with respect to such matters as registration and payment of fees and the special requirements of the colleges or schools in which they have been registered as students.

All candidates for degrees should check with the Registrar and dean of their school or college their program for graduation three quarters prior to the date of graduation. Students who fail to perform this duty will

forfeit any equity in the adjustment of errors or omissions made in their programs.

A candidate for a degree, unless excused in writing by the secretary of the faculty, must attend the graduation exercises at which he expects a degree to be conferred upon him.

The University reserves the right to withhold the diploma of a student who has completed all academic requirements if he is guilty of conduct which is morally reprehensible or is of such disorderly nature that could have been disciplined by expulsion.

MISCELLANEOUS REGULATIONS

STUDENT CARS. Freshmen students are not permitted to have or to drive automobiles during their first year at the University. No student on scholastic probation or who has less than a "C" (73) average for the previous year may have or drive an automobile in Athens.

HIGH SCHOOL SUBJECTS NOT TO BE DUPLICATED. No University credit will be granted for work in mathematics or other courses, except for the special provision applicable to foreign languages, taken at the University when such work is a repetition of studies already completed in high school. A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

FORFEITURE OF CREDIT. By registering for a course for which he has already received credit either by work at the University or by transfer of credits from another institution, a student forfeits the previous credit in that course. The student's final grade in the course will be the one made on the repetition.

NO EXTENSION WORK BY RESIDENCE STUDENTS. Extension or correspondence work for University credit may not be taken by a student while registered as a resident student, except in extraordinary cases and when authorized by the dean of the college or school as a part of the student's normal load of work.

CHANGES IN COURSES. Changes in a student's program of courses may be made only with the approval of the dean of the college or school in which the student is registered. Changes will not be permitted unless requested during the first four days of the quarter. A service fee of $2 may be assessed for each change, though no charge will be imposed for changes made necessary by University regulations.

DROPPING OF COURSES. A student may not drop a course without the permission of the dean of his college or school. Veterans must notify the Director of the Veterans Division.

ADMISSION TO EXAMINATION IN A COURSE TAKEN IN THE UNIVERSITY. No student who has not registered for the course will be admitted to the final examination, and only under extraordinary circumstances will he be admitted to the examination unless he has attended at least 50 per cent of the total class and laboratory exercises held in the course.

SPECIAL COURSE IN READING AND STUDY SKILLS, DESIGNATED PSYCHOLOGY 99. This course is required of all freshmen designated on the basis of Placement Tests. Designated freshmen will not be admitted to second quarter of freshman English until satisfactory completion of this course is reported by the instructor. With the approval of the instructor, students

not included on this list, but referred by faculty members, may register for the course. Such students will not exceed one-fourth the size of the class.

Class Attendance. All students are expected to attend regularly the meetings of classes in courses for which they are registered. A student who incurs an excessive number of absences may be placed on probation or dismissed from the University.

Absences From Classes Before and After Holidays. A student who is absent from any class or regular University exercise on the day before or the day after a holiday period and who has no valid excuse for such absence may be required to pay to the University treasurer a fine of $2 for each of the days on which an absence occurred. Validity of the excuse will be detrmined by the registrar.

Student Conduct. A student is expected to show under all circumstances a proper respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens.

Social Probation. For any serious or repeated infraction of regulations, a student or group may be placed on social probation which indicates that any further infraction of regulations may cause suspension from the University.

The University reserves the right to exclude at any time students whose conduct is deemed improper or prejudicial to the interests of the University community.

Withdrawal From the University. No student is permitted to withdraw from the University after registration for a term without notifying the Dean of Men or Dean of Women, who shall notify the Registrar and the student's parents. Veterans receiving allowances under any of the acts of Congress must also notify the Director of the Veterans Division. Refunds will be based on the date of such notification.

A student against whom charges are pending will not be permitted to withdraw from the University until such charges shall have been adjudicated.

In general a student voluntarily withdrawing may return later if scholastically eligible.

Reports to Parents. At the close of each quarter reports of students' grades will be mailed to parents or guardians. In the case of freshmen, a report will be made at the end of the first six weeks of the fall quarter.

Reports will also be made to the parent regarding any official action that has the effect of placing a student on probation or of excluding him from the University.

SCHOLASTIC PROBATION AND DISMISSAL

Probation. A student who fails to pass in any quarter at least 10 hours* of work shall be placed on scholastic probation for his next quarter in residence. A student remains on scholastic probation until he passes 15 quarter hours* of work with a "C" or better grade in at least 10 hours during one quarter. No student will be credited with the completion of the requirements for graduation while on probation unless he passes every course taken during that quarter. A student who is on probation shall not be allowed to register for a Fall Quarter. Students on scholastic probation may not have or drive an automobile in Athens.

*Exclusive of basic military or air science and physical education.

Dismissal. A student shall be dismissed if (1) he fails to pass 5 hours of academic work in a quarter, (2) if he is on probation and fails to pass 10 academic hours of work in a quarter, or (3) if he is on probation for two quarters and fails to remove himself from probation during the second probational quarter. In the administration of these rules, a student who is dismissed for the first time may return on probation any quarter except a Fall Quarter.

If under the operation of these rules a student should be dismissed a second time, such student may not again be admitted as a candidate for a degree. This regulation shall not, however, constitute a bar to said student's admission to particular courses after the lapse of a time interval sufficient to obtain evidence that his scholastic disabilities have been overcome.

Students who decline, after consultation with appropriate ROTC and University officials, to fulfill the terms of their ROTC deferment agreements pertaining to undergraduate work at the institution will be permanently dismissed immediately.

Admission to Another College or School. A student dismissed from a college or school may not transfer to another college or school until after the expiration of his period of dismissal, and then only when the consent of the deans of the two colleges or schools involved. The dean of the college to which admission is sought should take the initiative in the matter of transfer by conferring with the dean of the college from which the student was dismissed.

Counseling. Every quarter students with poor scholastic records should be advised that unless their record improves markedly in the next quarter they should withdraw from the University. Such students should be warned that they may be dismissed.

Eligibility for Student Activities. A student who is on scholastic probation is not eligible for participation in any extra-curricular activity or to represent the University or student body in any official capacity. This includes members or managers of athletic teams, debating teams, glee clubs, dramatic clubs, student publications, campus leaders, officers of the fraternity and sorority council, officers of student government, officers of any other activities, which, in the judgment of the Director of Student Activities, should be included. A student who is ineligible because of a conditional grade which placed him on probation may become eligible by removing this conditional grade. Students on conduct probation are ineligible to participate in such activities as those above mentioned.

HONORS

The University strives to promote excellence in scholarship by giving official recognition to those students whose scholastic work is of a superior character. It also recognizes outstanding ability speaking, writing, and other forms of scholarly activity.

GRADUATION WITH HONORS

The University awards degrees with honors to candidates who achieve specified scholastic records. Not more than 45 quarter hours taken at other institutions may be applied to the degree with honors requirements. The specified scholastic records and honors are: cum laude for an average of

90.0 to 92.9; magna cum laude for an average of 93.0 or better; summa cum laude for a record with all grades of A or A+.

INDEPENDENT STUDY

A junior or senior student of superior scholastic standing who wishes to pursue independent study in a particular subject may do so upon the recommendation of his major professor and the approval of the Executive Committee of the College of Arts and Sciences.

VALEDICTORIAN

Not more than 45 quarter hours taken at other institutions may be used in determining eligibility for valedictorian. The student with the highest academic average at the University is named valedictorian of his class.

HONOR FRATERNITIES AND SOCIETIES

Several honor fraternities and societies at the University extend recognition to students on the basis of scholarship and good character. There are chapters of Phi Beta Kappa, Sigma Xi, Phi Kappa Phi, and of many college, school, and departmental honor societies. Membership in these societies is highly prized in educational circles.

HONOR LIST

Near the close of the college year, an Honor List is made up for all classes on the basis of the work of the year. The first group on this list constitutes the Dean's list and consists of those who have made an average grade of 90 or whose grades place them in the upper five per cent of their class. The second group in the Honor List consists of those whose grades place them in the upper ten per cent of their class but whose names are not included in the Dean's List. In the case of freshmen and sophomores, the Honor List is made on the basis of the total enrollment in all of the schools and colleges of the University.

One day of each year is set aside as an occasion for according special recognition to those students whose names appear on the Honor List and those who have been elected to the Phi Beta Kappa, Phi Kappa Phi, Sigma Xi, or who have obtained other scholastic honors.

UNDERGRADUATE SCHOLARSHIPS, HONORS, AWARDS AND PRIZES

Unless otherwise specified these scholarships, honors, awards, and prizes are open to both men and women. Scholarships available to entering Freshmen are preceded by an asterisk (*).

Burke Dowling Adams Advertising Scholarship. A tuition scholarship covering three quarters open to juniors and seniors majoring in advertising in the School of Journalism. Apply to Dean of School of Journalism.

Agricultural Engineering Faculty Award. Each year the faculty of the Department of Agricultural Engineering gives special recognition to those students in the department whose accomplishments have been outstanding. The awards are made on the basis of scholastic attainment,

character, and leadership. The names of those selected are engraved on a bronze plaque. Each student selected receives a one-year membership in the American Society of Agricultural Engineers.

ALPHA GAMMA RHO SCHOLARSHIP. This award of $200 is made to a Freshman boy in agriculture, forestry, veterinary medicine, agricultural engineering, or agricultural education and is given to the 4-H boy ranking highest in scholarship from the candidates nominated annually by each State 4-H Club Leader.

ALPHA KAPPA PSI PRIZE. The Alpha Kappa Psi national commerce fraternity awards annually a gold pin to that member of the junior class of the College of Business Administration, who, in the opinion of the faculty of the College, has made the best record during the year. The award is based on scholarship and character.

ALPHA LAMBDA DELTA AWARD. Each year National Alpha Lambda Delta gives a book of outstanding value to the member of Alpha Lambda Delta who has held the highest average during eleven quarters at the University of Georgia.

THE AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION offers two scholarships of the value of $50 each per quarter, or $200 each per year of four quarters. These scholarships are awarded to men and women in the upper one-third of the graduating class who are in need of financial assistance and who can present proper letters of recommendations. For information on these scholarships, prospective applicants should write the Dean of the School of Pharmacy.

ART ADVANCEMENT FUND. A limited number of scholarships are awarded annually from the Fund for the Advancement of Art. The recipients of the awards are selected by a committee composed of members of the art faculty and a representative of the students.

ATHENS BUSINESSMEN'S SCHOLARSHIP. Tuition scholarship for Athens resident.

*ATLANTA FEDERAL SAVINGS SCHOLARSHIP. Two annual awards of $500 each to graduates of Atlanta and Fulton County High Schools. One scholarship to freshman entering Business Administration; the other to a senior in Business Administration. Awarded on basis of scholarship and financial need. Apply to Dean, College of Business Administration, before March 1.

ATLANTA PAN-HELLENIC SCHOLARSHIP. Tuition scholarship to senior women student (not necessarily sorority). Awarded on basis of scholarship, financial need, and character by a committee organized through Dean of Women. Apply to Dean of Women, University of Georgia.

*BAND SCHOLARSHIPS. The University, in cooperation with the Athletic Association, provides a limited number of scholarships to persons playing in the University Band. Recipients are chosen by the Band Director.

BLUE KEY SCHOLARSHIP FUND. Established in 1952 the income from this fund is to be used for scholarships as the Blue Key Honor Society, with the approval of its faculty advisor, directs. The fund is administered by the University of Georgia Foundation.

BORDEN AGRICULTURAL AWARD. A $500 annual award to senior in College of Agriculture with the best scholastic average who has taken two or more Dairy courses. Selected by Dean of the College of Agriculture.

BORDEN HOME ECONOMICS AWARD. A $300 annual award to the senior in the School of Home Economics who made the highest average in her

junior year and who has completed certain prescribed courses in Foods and Nutrition.

BRYAN PRIZE. The late William Jennings Bryan gave to the University the sum of $250 and directed that the income of this amount be awarded annually as a prize to that student who writes the best essay on the democratic form of government. Essays are submitted to the Head of the Department of Political Science and are judged by a committee of the faculty of this department.

EDWARD A. BURDETTE MEMORIAL MEDAL. This medal is offered by Mrs. L. G. Daingerfield in memory of her son, Edward A. Burdette. It is awarded to that member of the senior class who, in the judgment of the faculty of the English Department, has done the best work as a major student in the field of English.

NATHAN BURKAN MEMORIAL COMPETITION. The American Society of Composers, Authors, and Publishers annually offers a cash award of $100 to that student of the graduating class who submits the best paper on *Copyright Law*. Selection is made by the Law faculty.

THE M. F. BYRD AWARD. The name of the veterinary student who shows the most progress during his first year in the School of Veterinary Medicine is inscribed on a plaque. The award is in memory of M. F. Byrd, a member of the Veterinary Class of 1961, who died in his first year as a veterinary student. Selection by members of the Veterinary Faculty who instruct first year students.

THOMAS D. CAREY AND J. C. C. BLACK, JR., MEMORIAL FUND. Established in 1957, by will, by Merial Black Carey in memory of her husband and her brother as a perpetual fund, the income from which is used to enable deserving young men from the Academy of Richmond County or the Junior College of Augusta to attend the University. The fund is administered by the University of Georgia Foundation.

CASTLEBERRY FOOD COMPANY SCHOLARSHIP. Established by the Castleberry Food Company, Augusta, Georgia, this scholarship of $250 is to be awarded to a deserving student majoring in food technology.

CHEMSTRAND CORPORATION. An annual award of $500 to a senior business administration student as selected by the committee.

CHEROKEE SCHOLARSHIP. Tuition scholarship for Boy Scout from Northeast Georgia District.

CHI OMEGA PRIZE. The Mu Beta Chapter of Chi Omega Society offers a prize of $25 to the outstanding women student in sociology, economics, psychology, and political science in rotating order. For the year 1959-60 the prize will be awarded in sociology. In order to be eligible for this prize, a student must take at least three courses per quarter throughout the year.

CHI PSI AWARD. The National Chi Psi Fraternity gives $200 annually to the outstanding student member of the local Chi Psi Fraternity. The committee making the selection is composed of a representative from the Dean of Men's Office and two alumni of the local chapter.

HUGH MOSS COMER SCHOLARSHIPS. Eight scholarships of $400, one each year for general excellence in 4-H Club work. Awards made through State 4-H Club office.

JOE BROWN CONNALLY PRIZE. This prize of $100 was established by his family in memory of Joe Brown Connally. It is awarded annually to that member of the junior class who is most proficient in Georgia history. Se-

lection is made by Head of the History Department in consultation with the instructor of the class in Georgia History.

Dairy Scholarships. Scholarships ranging from $200-$300 a year are available for upperclass students in the Dairy field. These include: Dairy Queen of Georgia, Foremost Dairies, Southern Dairies, Borden Sanck-en Company, Kennett Dairies, Georgia Crackers, Wells Dairy Co-operative, Georgia Milk Producers Conference and Morgan County Creamery.

Dairy Products Judging Award. Trophies and products are given by various commercial companies to encourage interest in the Dairy Products Judging Contest, which is open to all students interested in judging dairy products.

Debators Medal. The University awards annually a key to each of the six members of the freshman class who are selected by the Debate Council for membership on the Freshman Debate Team.

Delta Airlines Scholarship in Aeronautical Administration. Created in 1951 by a principal gift of $5,000 from Delta Air Lines, Inc., it is administered by the University of Georgia Foundation and provides for an annual award of $300 to a selected student majoring in aeronautical administration, available for both junior and senior years for the winner.

Delta Delta Delta Scholarship. A fund set up by the local chapter of the Delta Delta Delta Sorority and the national organization to aid a junior or senior woman to continue her studies. Application blanks may be secured from the Secretary of Scholarship Committee. Recommendations are made to the national sorority by a local committee; final awards are made by National Office of Delta Delta Delta.

Delta Phi Epsilon "Outstanding Freshman" Award. An annual award of $100 and a trophy to the girl or boy judged the year's "Outstanding Freshman" by the University of Georgia Chapter of Delta Phi Epsilon.

Delta Sigma Pi Scholarship Key. The Delta Sigma Pi national commerce fraternity awards annually a gold key to that member of the senior class of the College of Business Administration, who, in the opinion of the faculty of the College, has made the best record during the year. The award is based on scholarship and character.

Lamar Dodd Award. The University of Georgia Art Students' League gives to a student in the Art Department an award called the Lamar Dodd Award for outstanding work and service. Usually, but not necessarily, this award is given to a senior. The award consists of the student's name being engraved on a cup which remains the property of the Art Department. Students and faculty of the department make the selection.

*Durr-Schaffner Scholarship. Mr. and Mrs. Roy Durr, Durr-Schaffner Poultry Company, give each year one scholarship of $1600 for a student in poultry husbandry. The scholarship is for four years, $400 each year, provided the recipient maintains the necessary scholastic average.

A. S. Edwards Award. An annual award consisting of a certificate and key to the student chosen for excellence of scholarship, meritorious conduct, service to the Psychology Department, and future promise as a scholar. This award was established by the University of Georgia Chapter of Psi Chi to honor Austin Southwick Edwards, Head, Department of Psychology, 1916 to 1951.

P. W. Fattig Scholarship. The Georgia Entomological Society sponsors the scholarship in memory of one of its most distinguished charter mem-

bers. The fund is administered by the University of Georgia Foundation and the interest will be used as tuition scholarship for one or more junior or senior students majoring in entomology. Selection will be made by a committee headed by the Head of the Department of Entomology.

THE FELTON FUND. This fund was established by the will of Rebecca Latimore Felton in memory of her children, and is to be used to educate and assist in the education of men students. The fund is administered by the First National Bank of Atlanta.

GEORGIA FORD TRACTOR SCHOLARSHIPS. Annual $700 scholarships awarded to each of the two outstanding seniors and annual $400 scholarships awarded to each of the two outstanding juniors in agricultural engineering.

*JOHN AND MARY FRANKLIN SCHOLARSHIPS. Twenty $300 scholarships for 4-H Club members or former members. For entering freshmen, transfers, or students presently enrolled at the University. Must work at Rock Eagle as a counselor in the Summer Camping Program. See the County Agent or Home Demonstration Agent for information.

*FRESHMAN SCHOLARSHIPS. Up to one hundred competitive scholarships are awarded entering freshmen each year. The value of each scholarship is $183, covering fees of $61 per quarter. Selection is made by the Freshman Scholarship Committee. Apply by March 1.

*GAINESVILLE-MIDLAND RAILROAD SCHOLARSHIPS. Five awards of $500 each to Poultry majors from Clarke, Jackson, and Hall Counties. Apply to Head of Poultry Department.

*GARDEN CLUB OF GEORGIA SCHOLARSHIP. $100 each per quarter to a selected freshman and a selected upperclassman in landscape architecture. Apply to Head of the Department of Landscape Architecture.

*GENERAL MOTORS SCHOLARSHIPS. Two awards annually to entering freshmen, amount determined on basis of student need. Four year renewal option. Apply to the University Scholarship Committee by March 1.

GEORGIA COLONIAL HISTORY PRIZE. The Athens Town Committee of the Georgia Society of Colonial Dames of America offers annually a prize of $50 for the best paper on some topic of colonial Georgia history, written by any University student.

*GEORGIA POWER COMPANY SCHOLARSHIP. Awarded to students who are residents of Georgia for outstanding service in the field of Agriculture.

*GEORGIA SCHOLASTIC PRESS ASSOCIATION SCHOLARSHIPS. Two scholarships yearly to high school graduates equivalent in value to the matriculation fee. The winners are chosen by the faculty of the School of Journalism through the GSPA upon recommendation of the faculty advisers of the various high school publications of the state. Correspondence concerning these scholarships should be addressed to the Dean of the School of Journalism.

LT. JOEL HIRSCH GOLDBERG MEMORIAL FUND. Established in 1954 by the B'nai B'rith Women of Atlanta in memory of Lt. Joel Hirsch Goldberg, son of their founding president, and an alumnus of the University, this fund provides an annual state tuition award to a deserving student. Selection is made by the University Scholarship Committee.

JAMES COFFEE HARRIS AWARD. A cash award to a junior student in the School of Home Economics as selected by a faculty committee on the basis of superior grades in Home Economics and English and who is in need of financial assistance.

HARRISON PRIZE. The Harrison Company, law-book publishers of Atlanta, Georgia, offers as a prize to that member of the law graduating class who makes the highest average during his senior year a copy of *Powell's Action for Land.* Selection is made by the Law faculty.

WALTER B. HILL PRIZE IN ETHICS. The late Judge Horace Russell established an annual prize of $50 that is awarded to the student who writes the best essay on a subject in the field of Ethics assigned by the Professor of Philosophy. Award is made by a committee chosen by the faculty of the Philosophy Department.

ROBERTA HODGSON LOAN AND SCHOLARSHIP FUND. Created in 1955 by Miss Roberta Hodgson to provide, out of income, scholarships for, or loans to, gifted students in need of financial assistance. The fund is administered by the University of Georgia Foundation.

DEAN'S AWARDS IN HOME ECONOMICS. Two annual awards of $100 each for excellence in the sophomore and freshman years, respectively, and superior promise in Home Economics.

HOMELITE FORESTRY SCHOLARSHIP. Annual award of $500 to junior or senior in School of Forestry on basis of scholarship and leadership. Apply to Dean, School of Forestry.

HORTICULTURAL CLUB SCHOLARSHIP. $50 award to an upperclass student who has exhibited qualities of leadership and promise in the field of Horticulture.

INTERFRATERNITY COUNCIL SCHOLARSHIP. An annually awarded state tuition scholarship which goes to a sophomore boy selected by a committee on the basis of his freshman scholastic record, his participation in campus activities, and his financial need.

EARL JENKINS MEMORIAL AWARD. Established by Mrs. Gladys Beach, this is an annual award of $100 to an outstanding junior in the School of Forestry.

SALLIE MAUDE JONES SCHOLARSHIP. One-third of the net income under the will of Miss Sallie Maude Jones is set up for the purpose of aiding needy and deserving girls in the College of Education. Selection is made by a committee from the College of Education.

JUNIOR ORATOR'S PRIZE. The University awards annually a silver loving cup to that member of the junior class who delivers the best original oration. Sponsored by Demosthenian and Phi Kappa Literary Societies, judged by member of University faculty.

GEORGE D. KITZINGER HONORARY AWARD. The most outstanding 4-H Club boy and 4-H Club girl as named by the State 4-H Club office share equally the annual income from a fund set up by George D. Kitzinger for Georgia 4-H Clubs.

*KROGER COMPANY SCHOLARSHIPS. Four scholarships of $250 each are awarded by the Kroger Company to Georgia high school graduates who enter the College of Agriculture and the School of Home Economics the Fall Quarter. Application blanks may be obtained from the Dean of the College of Agriculture and the Dean of the School of Home Economics and must be filed by March 1.

*JOSEPH RUCKER LAMAR SCHOLARSHIP. A committee from Richmond Academy, Augusta, Georgia, awards scholarships annually to students attending the University of Georgia in Athens.

LAWYERS CO-OPERATIVE PUBLISHING COMPANY PRIZE. The Lawyers Co-operative Publishing Company offers as a prize to that member of the class

in Legal Bibliography who makes the highest grade a copy of *Ballentine's Law Dictionary*. Selection is made by Law faculty.

LEDERLE LABORATORIES SCHOLARSHIP. An annual award of $1,000 for the senior student in Veterinary Medicine, showing the most promise of becoming a research worker in animal diseases.

JESSIE AND DAN MACDOUGALD MEMORIAL FUND. The Dan MacDougald Memorial Fund was created on August 24, 1953, by gifts from friends, associates and family of Dan MacDougald, first honor graduate of the Law Class of 1910, to benefit the School of Law and honor Mr. MacDougald's memory. Upon the death of Mrs. Dan MacDougald in 1957, it was decided to honor her also and the name of the Fund was changed accordingly. The Fund is administered by The University of Georgia Foundation and provides for an annual cash award of the net income to the first honor graduate of the School of Law.

HAMILTON MCWHORTER PRIZE. Hamilton McWhorter of the Class of 1875 and his family provided for an annual award to that member of the Freshman Class of the University selected from the group having the highest scholastic average for the year's work on the basis of service and leadership as demonstrated by participation in campus activities.

*MARBUT MILLING COMPANY SCHOLARSHIPS. Five annual $400 awards to students majoring in poultry. One award for best scholastic record in each of the four classes (freshman, sophomore, junior, senior), and one additional scholarship to any one of the four classes. Apply to Head of the Poultry Department.

ISAAC MEINHARD MEMORIAL AWARD. A fund of one thousand dollars from which the net annual income is used to provide an annual prize for the student who has the highest average grade for all of his law work. Selected by Law faculty.

QUIMBY MELTON-GRIFFIN NEWS PRIZE. A prize of twenty-five dollars given by Quimby Melton, editor and publisher of the *Griffin News*, to the winner of an essay contest, the subject of the essay and the number of words determined by the donor. A committee of judges is appointed by the Dean of the School of Journalism and Mr. Melton.

BERT MICHAEL SCHOLARSHIP. The family of the late Bert Michael of the class of 1912 gave to the University a fund of $1,000. The income of this fund is awarded annually as a prize to that member of the junior class who is selected by a committee of the faculty. In making the award the faculty committee considers scholarship, qualities of character, and also financial need.

MORTAR BOARD SCHOLARSHIP. An annual tuition award to woman student selected at the end of sophomore year for use in her junior year. Based on scholarship, character, and financial need. Apply to Placement Office.

*MUSIC SCHOLARSHIPS. The Music Department offers to outstanding students majoring in music a limited number of scholarships varying from private lesson charges to state tuition charges. These include scholarships for band, string, piano, and voice.

JENNIE BELLE MYERS MEMORIAL. Annual award to upperclass woman student best exemplifying the qualities of graciousness and character as remembered in Miss Jennie Belle Myers.

OMICRON DELTA KAPPA PRIZE. The Omicron Delta Kappa honorary fraternity awards annually a silver loving cup to that male student in the University who makes the highest scholastic average during the academic

year. In order to be eligible for this prize, a student must have been in residence at the University for three quarters.

PHI DELTA PHI PRIZE. Wilson Inn, the local chapter of Phi Delta Phi Legal Fraternity, presents annually to that member of the first year law class who makes the highest average during his first year a prize consisting of law books selected by the Inn.

PHI KAPPA PHI SCHOLARSHIP. A state tuition scholarship awarded to the freshman student with the highest scholastic average for the first year's work at the University who returns to school the following Fall Quarter for the sophomore year.

*POULTRY SCHOLARSHIPS. Awards of $200 are made to entering freshmen on the basis of their high school record and who wish to major in Poultry Husbandry in college. Selection is made by the Poultry Department. These include the following individual scholarships: BISHOP HATCHERY, CHEMELL'S HATCHERY, COTTON PRODUCERS ASSOCIATION, JESSE JEWELL, INCORPORATED, J. H. JOHNSON & SONS, PIEDMONT FEED COMPANY, PIEDMONT POULTRY COMPANY, STRAIN FEED & COAL COMPANY, THEO STIVERS, A. W. THOMPSON HATCHERY, VANTRESS FARMS, SOUTHEASTERN HATCHERIES.

PROFESSIONAL WOMAN STUDENT OF THE YEAR. The Professional Panhellenic makes an annual award to the senior woman student who is selected by a faculty committee as the professional woman student of the year, from candidates named by each academic dean as the professional woman student of the year in his school or college.

PURINA MILLS SCHOLARSHIP. The Purina Mills Company of St. Louis gives a scholarship that consists of paying the recipient's expenses for one month of study in the factories and laboratories of the company and a leadership course on Lake Michigan to an outstanding member of the junior class in Animal Husbandry. The staff of the Animal Husbandry Department makes the selection.

RALSTON PURINA COMPANY SCHOLARSHIP. An annual $500 scholarship awarded to the outstanding senior in the College of Agriculture.

RAYONIER CORPORATION SCHOLARSHIP. Three annual awards of $500 to Seniors, one each from Arts and Sciences, Business Administration, and Forestry.

REDFEARN PRIZE. Mr. D. H. Redfearn, '09, of the Miami bar offers a prize of $50 to the law student writing the best article on *Suggested Changes in the Remedial Laws of Georgia.* Selected by Law faculty.

*REFRIGERATED TRANSPORT COMPANY AND ITS OPERATORS SCHOLARSHIPS. (Limited to 35 North Georgia counties). A total of $6400 is provided for four scholarships of $1600 each to cover four years. Open to Poultry Majors. Apply to Head of the Poultry Department.

THE NEEL REID MEMORIAL SCHOLARSHIP IN LANDSCAPE ARCHITECTURE. The Peachtree Garden Club of Atlanta in 1947, as a memorial to Neel Reid, established a fund, the income of which is to be awarded to a student in the Department of Landscape Architecture who has shown outstanding proficiency in landscape design. The stipend is $500.

MARY ROSENBLATT ART SCHOLARSHIP FUND. Mr. and Mrs. William L. F. Rosenblatt in 1949, as a memorial to their daughter, Mary Lillian Rosenblatt, a member of the Art Staff of the University from 1929 through 1934, established a trust fund with the University of Georgia Foundation. The income is to be used to aid worthy students in the Department of Art. Application should be made with the Head of the Department of Art.

NITA BLACK RUCKER MEMORIAL FUND. Established in 1949 by Nellie Rucker and Walter and Lamar Cobb Rucker for the benefit of Exchange Students from Germany. The fund is administered by the University of Georgia Foundation.

HORACE RUSSELL PRIZE IN PSYCHOLOGY. The late Judge Horace Russell established an annual prize of $50 that is awarded to the student who writes the best essay on a subject in the field of psychology assigned by the Professor of Psychology.

ST. REGIS PAPER COMPANY SCHOLARSHIP. Open to forestry students who have completed the sophomore year including the summer camp program. Selection is made by a Regional Committee on the basis of scholastic achievement and leadership. The scholarship is valued at $800 each for a junior and a senior student.

*SAVANNAH SUGAR REFINING CORPORATION SCHOLARSHIP. An award of $250 to a student majoring in food technology, first preference for an entering freshman and a second choice to a junior transfer student.

JESSIE WOODROW SAYRE PRIZE. The Jessie Woodrow Sayre Scholarship Foundation provides $100 annually to be used as a prize for the student of the College of Arts and Sciences who submits the best paper on World Relations. Papers are submitted to the Head of the Department of Political Science and are judged by a committee of the faculty of the College of Arts and Sciences.

*SEARS, ROEBUCK FOUNDATION SCHOLARSHIPS. Annual Scholarships of $200 awarded to entering freshmen in the College of Agriculture and the School of Home Economics.

THE HENRY A. SHINN MEMORIAL AWARD. The Alexander H. Stephens Chapter of Phi Alpha Delta National Legal Fraternity annually presents a certificate and a $25 Government Bond to the student writer of the best legal article published during the year. The award is given in honor of Dr. Henry A. Shinn, an esteemed member of the law faculty for many years.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. The Sigma Delta Chi national journalistic fraternity awards annually a certificate and key to the outstanding male senior in journalism. He is selected by a committee composed of the president of the local chapter of Sigma Delta Chi, the faculty adviser of the chapter, and one alumni member. In addition, Sigma Delta Chi awards annually certificates of distinction to those graduates of the School of Journalism who stand in the upper ten percent of their class.

SOPHOMORE DECLAMATION PRIZE. The University awards each year a silver loving cup to that member of the sophomore class who is adjudged to be the best declaimer. Sponsored by Demosthenian and Phi Kappa Literary Societies, judged by members of the University faculty.

*SOUTHERN MAID SCHOLARSHIPS. Tuition scholarships of $183 each given to two entering male freshmen interested in studying in the fields of physical or biological sciences. Donated annually by the Jacksonville Paper Company and its subsidiaries and limited geographically to students who live in the areas served by this company. Four year renewal option. Apply to the University Scholarship Committee by March 1.

SPECIAL SCHOLARSHIP AWARDS. From various sources the University has funds available for scholarship grants which may be awarded according to the provisions of the donations. These scholarships range in amounts from tuition and fees to all necessary expenses to attend the University.

Robert Strickland Agricultural Memorial Award Club Scholarships. Two annual awards of $400 each to juniors or seniors majoring in Agricultural Economics who have a genuine interest in economics of agriculture and have maintained a high scholastic average.

Swift and Company Scholarship. Swift and Company of Chicago offers a scholarship that consists of paying the recipient's expenses in Chicago for one week of intensive instruction in livestock marketing to the student who writes the best essay on some phase of livestock marketing. This scholarship is administered by the Animal Husbandry Department.

Texaco Scholarships. From one to four scholarships awarded annually by Texaco, Inc., to male students in scientific or engineering fields relating to the petroleum industry who have successfully completed two years of college, have need of financial assistance, and are American citizens.

*Lamar Trotti, Jr., Scholarship. An annual scholarship of $300 awarded to a worthy student of Tallulah Falls School, Tallulah Falls, Georgia, to attend the University of Georgia. Recipient is named by a committee composed of members of the Young Matrons Circle for Tallulah Falls School, Atlanta, Georgia.

*University Theatre-Thalian-Blackfriars Scholarship. Two state tuition scholarships are awarded each year to outstanding high school seniors for study in Speech and Drama. Selection is made by the Department of Speech and Drama.

The Willcox Prize in French. This prize was founded in 1896 as a memorial to their father by the sons of Professor Cyprian Porter Willcox, who, from 1872 until his death in 1895, filled with great distinction the chair of Modern Foreign Languages at the University. It will be offered to a student who has, in the opinion of the department, achieved excellence in French at the intermediate level. The nature of the award will be announced by the Department of Modern Foreign Languages during the course of the academic year.

The Willcox Prize in German. This prize was founded in 1896 as a memorial to their father by the sons of Professor Cyprian Porter Willcox, who, from 1872 until his death in 1895, filled with great distinction the chair of Modern Foreign Languages at the University. It will be offered to a student who has, in the opinion of the department, achieved excellence in German at the intermediate level. The nature of the award will be announced by the Department of Modern Languages during the course of the academic year.

R. C. Wilson Award. Created in 1947 by I. Z. Harris of the class of 1915 in honor of Robert C. Wilson, Dean Emeritus of the School of Pharmacy, this annual award of at least $50 goes to the "outstanding Pharmacy senior" elected by Pharmacy students. This fund is administered by the University of Georgia Foundation.

W. S. G. A. Loyalty Award. The Women's Student Government Association Loyalty Award is given each spring to that woman who while not holding a W. S. G. A. office has been the most outstanding in demonstrating her loyalty to the University and its highest ideals.

Women's Student Government Scholarship. An annual tuition award to woman student on basis of scholarship, financial need, and character. Apply to Placement Office.

Xi Sigma Pi Award. The Forestry Club of the University offers a prize of $10 to that member of the freshman class of the School of Forestry

who does the most outstanding work during the year. Selected by a committee from the organization.

"Z" Club. Tuition scholarship for outstanding Freshman for Sophomore year.

For further information concerning any of the above scholarships, write to the Director of Placement and Student Aid.

Fellowships, scholarships, and prizes for graduate students will be found under Graduate School.

STUDENT LIFE AND ACTIVITIES

STUDENT COUNSELING

The University maintains certain counseling and guidance services for all its students. Each academic dean, either personally or through appointed assistants, guide each student in his academic problems, especially in the arrangement of schedules, the completion of degree requirements, problems about probation, and other problems of an academic nature.

Counseling, other than academic, is centered in the Division of Student Affairs. The Dean of Men and the Dean of Women and their staffs are concerned with living arrangements and the personal problems of students. The Coordinator of Religious Activities counsels concerning personal problems of a religious and spiritual nature. The Guidance Center aids students in making educational and vocational decisions on the basis of aptitudes, interests, and personal information, and of the opportunities available; offers counseling in the improvement of reading and study skills, maintains records of all placement and other special tests, and helps the student make decisions on the basis of his characteristics. The Division of Placement and Student Aid offers financial and placement services to all students, especially to seniors and those seeking work either on or off the campus. The Director of Veterans Affairs assists veterans in educational planning and liaison with the Veterans Administration. Health problems are the responsibiltiy of the University Physician, and the infirmary staff is available on a 24-hour basis. The Psychology Clinic and the Speech and Hearing Clinic offer counseling supplementary to the services of the Division of Student Affairs.

All counseling services are available to students who voluntarily request them, or who are referred by faculty members and officials. All counseling services work in cooperation, and counselors take the responsibility of helping the student find the service which best fits his needs.

The University is attempting to maintain close personal relations between the students and the faculty members; and a part of each teacher's duties is personal conferences and the personal guidance of students whether formal or informal in nature.

STUDENT HEALTH SERVICE

The Department of Student Health was established for the protection and care of the health of students attending the University. In 1940 Judge Price Gilbert gave to the University funds for the erection of a new infirmary. This building is known as Gilbert Memorial Infirmary.

The physicians, in the Infirmary, are on duty from 8:30 A. M. to 5:00 P. M. week-days and until noon on Saturdays. Members of the nursing staff are on duty at all times and will contact the physician on call, after

duty hours, as needed to see patients. Physical examinations are to be done by the home physician and sent to the Infirmary ten days prior to the opening of the quarter. Students needing medical care are seen as expeditiously as possible. Emergencies are seen at once. Students requiring hospitalization are admitted and treated in the Infirmary, except for some illnesses and for surgical operations. A charge of $2.50 per day is made at the Infirmary to cover costs of meals and bed linen for patients admitted. Routine x-ray and laboratory facilities are available at the Infirmary; more specialized procedures must be referred to the proper department of local hospitals.

The University does not attempt to provide the services of various specialists, dental care, special nursing, or other unusual treatment as a regular part of its health program. When such services become necessary, the University physician (preferably after consultation with the parents of the student involved) refers the case to a local specialist or consultant. The infirmary fee does not cover the cost of such special services. In case of an operation, or certain types of contagious diseases, the specialist will place the student in one of the two local hospitals, at the expense of the student, or, if able to travel, the student will be sent to the home physician.

All students are urged to carry some form of Health Insurance. A special student plan is available at a cost of $13.50 a year which covers practically all costs of illness or injury. Details and application forms are available at the Gilbert Memorial Infirmary.

UNIVERSITY LECTURE SERIES

Each year several distinguished speakers and artists are brought to the University. The object of these programs is to offer to the students the advantages of cultural entertainments. Every student during the period of his residence at the University has the opportunity to see and hear some of the most renowned figures in the artistic, literary, and scientific worlds.

ART, DRAMA, AND MUSIC ACTIVITIES

The Department of Art presents a series of art exhibitions throughout the year. These are open to the entire University and community.

The Art Students League sponsors student trips, exhibitions of student work and, in cooperation with the Department of Art, an annual auction of faculty and student work, the proceeds of which are placed in the Fund for the Advancement of Art.

The University Theatre of the Department of Speech and Drama produces either one or two major productions each quarter. All students of the University are eligible to participate in any phase of these productions.

The Department of Speech and Drama, in conjunction with the University Theatre, brings outstanding professional companies to the campus of the University of Georgia during the year.

Music activities include the Men's Glee Club, the Women's Glee Club, the A Cappella Choir, the Madrigal Group, the Symphony Orchestra, the University Band, and a dance orchestra. The Men's Glee Club makes at least one tour each year.

Occasionally students particularly qualified for the band or orchestra have the opportunity of earning a small amount for their services to these groups. This opportunity is often spoken of as a student activity scholarship but in reality it is part-time work.

Music Appreciation Hour, conducted every Thursday by the head of the Music Department, is designed to teach students to enjoy good music. This hour has been very popular with the students and with the people of Athens.

ATHLETIC PROGRAM

The University appreciates the interests and needs of men and women students in the field of sports activities. To develop the interests and fulfill these needs the University sponsors a program of intercollegiate athletics and intramural sports activities for men and intramural sports activities for women.

The intercollegiate athletic program includes football, basketball, baseball, track, tennis, golf, swimimng, cross country, and rifle marksmanship.

The men's intramural sports program includes touch football, basketball, softball, golf, tennis, track, badminton, swimimng, horseshoes, volleyball, and bowling.

The women's intramural sports program sponsored by the Department of Physical Education for Women and the Women's Athletic Association, includes volleyball, swimming, horseshoes, golf, basketball, bowling, table tennis, badminton, softball, tennis, archery, and others.

FORENSIC ACTIVITIES

True to the traditions of southern oratory and debate, the University offers three debating societies to the students: Demosthenian Literary Society, and Phi Kappa Literary Society (for men), and Agricultural Club (for agricultural students). Throughout the year intersociety debates and orations maintain unusual interest in the societies.

Apart from the literary societies the University sponsors debating teams open to men and women students. The teams engage the outstanding colleges of the South and of the nation.

STUDENT PUBLICATIONS

Student publications include two of a campus-wide nature, *The Red and Black* (weekly newspaper) and *Pandora* (the University year book). In addition to these campus-wide publications there are certain student publications sponsored by the various schools and colleges or by organizations on the campus. Among these are: *Georgia Agriculturist* (monthly magazine in the College of Agriculture), *Cypress Knee* (publication of the School of Forestry), *The Georgia Clover Leaf* (year book of 4-H Clubs), *Georgia Agricultural Engineer* (year book of the Department of Agricultural Engineering), *The Georgia Dairyman* (publication of the Dairy Science Club), and *The Georgia Pharmacist* (quarterly publication in the School of Pharmacy).

STUDENT CENTER

The Student Center in Memorial Hall conducts a wide variety of recreational programs and activities. The Center is operated by a director and a board of students. Table tennis and billiard tables are available as well as a large lounge with phonograph, television, and radio. Special musical and film programs and student socials are offered.

RELIGIOUS ORGANIZATION

The University employs a Coordinator of Religious Activities for the spiritual guidance of its students. Under the direction of the Religious Activities office is the general non-denominational religious organization, the University of Georgia Religious Association. Operating largely through its student officers, the Religious Association holds religious programs each week throughout the regular sessions. The Association also cooperates with the local church student groups in assisting them with special projects and in promoting major religious events for the campus.

FRATERNITIES AND SORORITIES

Social organizations on the campus include men's Greek letter fraternities and women's Greek letter sororities. These organizations, as well as many clubs and societies of a social nature, provide the campus with many social functions during the year.

FEES AND EXPENSES

Application Deposit: New students applying for admission to the University for a Fall Quarter must send $25 with the application. If the applicant is not accepted the deposit will be refunded in full. If the applicant is accepted for admission and registers for that Quarter the deposit will be applied toward his fees. If an applicant is accepted and cancels his acceptance prior to July 1 the deposit will be refunded in full. No refunds will be made if acceptance is cancelled after July 1 preceding the Fall Quarter. Make checks payable to University of Georgia.

Matriculation Fee: Resident Students. Each student who is a resident of the State of Georgia is required to pay during the registration period at the beginning of each quarter a matriculation fee of $59.50.

Non-Resident Tuition. Every non-resident student shall pay during the registration period at the beginning of each quarter a non-resident tuition fee of $100 in addition to the regular matriculation fees charged resident students.

Matriculation Fee for Law Students. Students taking professional work in law are required to pay $12.50 more per quarter than regular students. Students who are residents of Georgia must pay a quarterly fee of $72 and non-resident students are required to pay a non-resident tuition fee of $100 in addition to the $72 charged resident students.

Matriculation Fee for Veterinary Medicine Students. Students taking professional work in veterinary medicine are required to pay $27.50 more per quarter than regular students. Students who are residents of Georgia must pay quarterly a matriculation fee of $87, and non-resident students are required to pay a non-resident tuition fee of $100 in addition to the $87 charged resident students.

Health Service Fee. Each student is required to pay during the registration period at the beginning of each quarter a health service fee of $5.50.

Matriculation Fee for Students With Less Than Twelve Quarter Hours. Students who are permitted to register for less than twelve quarter hours of work must pay a matriculation fee of $5 for each quarter hour except students in Law whose rate is $6 per quarter hour and those in Veterinary Medicine whose rate is $7. Basic military and physical

education each shall count as 2 hours per quarter in assessing fees. In addition to the quarter hour matriculation rates charged to resident students, non-resident students must pay a non-resident tuition fee of $7 for each quarter of work taken.

MATRICULATION FEE FOR ATLANTA AREA TEACHER EDUCATION SERVICE PROGRAM. Students taking courses in the Atlanta Area Teacher Education Service Program must pay a matriculation fee of $9 for each quarter hour.

MATRICULATION FEE FOR OFF-CAMPUS WORKSHOPS. Students taking courses at Off-Campus Workshops must pay a matriculation fee of $6 for each quarter hour.

REQUIREMENTS TO REGISTER AS A LEGAL RESIDENT

In order to register as a legal resident of Georgia at the University of Georgia, a student must establish the following facts to the satisfaction of the registering officer.

(a) If the student is under 21 years of age, he must show that his supporting parent or guardian has been a *bona fide* resident of Georgia for at least one year next preceding the registration date.

(b) In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of appointment, and then only upon proper showing that such appointment was not made to avoid the non-resident fee.

(c) If a student is over 21 years of age, he must show that *bona fide* residence in Georgia was established at least one year prior to the registration date. Any period of time during which a person is enrolled as a student in any educational institution in Georgia may not be counted as a part of the year's residence herein required when it appears that the student came into the state and remained in the state for the primary purpose of attending a school or college.

A faculty member and his minor children may register for courses on the payment of resident fees, even though the faculty member has not been in residence in Georgia for a period of twelve months.

AUDITOR'S FEE. Persons desiring to attend courses or lectures without examination or credit may secure an auditor's ticket. Fees for auditors are the same as those for students registered for credit.

BREAKAGE DEPOSITS AND SPECIAL FEES. There are no general laboratory fees, but there are a few courses offered that require special fees, such as agronomy for cotton grading and field trips; forestry for forestry camp; landscape architecture for field trips; and music for private lessons. The catalogue description of a course indicates the amount of any special fee that may be required of those registering for the course.

There are no laboratory breakage deposit fees as such. However, students will be held responsible for any breakage they cause.

ARMED SERVICES UNIFORMS, FEES, AND TEXTBOOKS. Students enrolling in the Army or Air Force ROTC will be furnished uniforms through the University of Georgia at an approximate cost to the student as follows:

Basic Course	$62.50 Plus $2.50 Account Fee
Advanced Course	$87.50 Plus $2.50 Account Fee

At registration, each student enrolling in basic or advanced ROTC will be required to pay the deposit as indicated above. A list of these students

will be submitted to the ROTC as authority for the military property custodian to issue prescribed articles of uniform and insignia.

Students formally enrolled in ROTC are authorized a commutation in lieu of uniform which is earned in accordance with the length of time actually enrolled. The uniform allowance for basic course students is $25 per student per year not to exceed two years; for advanced course students $100 per student for a two year period. These amounts are subject to change by the two departments but were in force for the 1959-60 fiscal year. The amount paid each student will not exceed the value of the articles of uniform purchased through the University of Georgia. The account will be balanced and final settlement will be made by the Treasurer's Office after the close of the fiscal year (during the summer), except for advanced course students completing the course, whose accounts will be closed and balanced during the summer following the end of the second year of the course. Any portion of the commutation in lieu of uniform not expended by the student will be returned by the institution to the Federal Government.

Students are entitled to retain uniforms, furnished, as personal property. The uniforms are identical to those used in the service, and will save the cost of same when entering active duty. There will be no refunds on deposits except where the cost of the uniform is less than the total amount of the deposits, plus commutation allowed by the Federal Government, and then only after the end of the second year basic and the second year advanced, and/or withdrawal for normal reasons.

All text books and manuals required for courses in Military and Air Science and Tactics are furnished free of charge by the U. S. Government; however, students are held responsible for them in case of loss or undue damage.

TIME AND METHOD OF PAYMENT OF FEES AND CHARGES

Time of Payment. All fees, deposits, and charges for room and board are payable during the registration period at the beginning of each quarter. A student is not officially registered as a student in the University until such fees and charges are paid. Students who do not make payment within the registration period will be required to pay the service charge for late registration.

Method of Payment. All payments should be made to the Treasurer's Office in the Academic Building on the north campus. Fees and charges may be paid in cash or by check in the exact amount of the student's bill. If a check given for a student's bill is not paid on presentation to the bank on which it is drawn, the student's registration will be cancelled. If the registration is cancelled after the registration period for the quarter has expired, the student may re-register only on payment of the service charge for late registration.

Students are advised to bring their money in the form of express or traveler's checks or money orders and to deposit these in a local bank.

SPECIAL FEES AND CHARGES

Service Charges for Late Registration. A student who fails to register on the days set aside for that purpose will be subject to penalties as follows: for the first day beyond the scheduled dates, $5; and for each succeeding day up to and including the fourth day, $2; or a total of $11.

Special Examination Fee. The University reserves the right to charge a fee of $2 for any special examination that may be given at the request of a student.

Fine for Absences Before and After Holidays. A student who is absent from any class or regular University exercise on the day before or the day after a holiday period and who has no valid excuse for such absence may be required to pay a fine of $2 for each of the days on which an absence occurred.

Transcript Fee. A student who has discharged all financial obligations to the University is entitled to receive on request and without charge one transcript of his academic record. A charge of $1 will be made for each additional transcript. All records prior to the Summer, 1950 have been microfilmed; transcripts of these records are $1 each, payable with the request.

Diploma Fee. The fee for a diploma is $8 for undergraduate, $10 for masters, and $25 for doctors degree, which fee includes rental of cap and gown. The doctors fee also includes cost of hood. The Certificate of American Studies for Foreign Students fee is $5.

Graduate Record Examination. All graduate students are required to take the Graduate Record Examination before they are admitted to candidacy for a graduate degree. The fee for students taking this examination is $5.

FEE REFUNDS

Students who formally withdraw from the University within one week following the scheduled registration date are entitled to a refund of 80 percent of the fees paid for that quarter.

Students who formally withdraw within a period of one to two weeks after the scheduled registration date are entitled to 60 per cent of the fees paid for that quarter.

Students who formally withdraw during the period between two and three weeks after the scheduled registration date are entitled to a refund of 40 per cent of the fees for that quarter.

Students who formally withdraw within a period of three to four weeks after scheduled registration date are entitled to a refund of 20 per cent of the fees paid for that quarter.

Students who withdraw after a period of four weeks has elapsed from the scheduled registration date will be entitled to no refund of any part of the fees paid for that quarter.

All students who withdraw during their first quarter of attendance shall have their $25 admission deposit deducted before any refunds apply.

Students suspended for disciplinary reasons shall have no right to a refund of any portion of any fees paid.

Students who leave the University when disciplinary action is pending or who do not formally withdraw, are not eligible for a refund.

Information regarding refunds of payment of room and board is set forth under the heading of "Student Housing."

No Refunds of Any Nature Can Be Made Except at the End of a Quarter.

RESERVATION OF RIGHT TO CHANGE FEES

The University reserves the right to make changes in its fees and charges at the beginning of any quarter and without previous notice. This right will be exercised cautiously.

SUMMARY OF EXPENSES

It is estimated that the reasonably necessary annual expenses of a student at the University vary from $800 to $1100. This estimate includes University fees and cost of books, military uniform, room, board and laundry; it does not include travel, clothing, and incidental expenses.

Law students, veterinary medicine students, and non-resident students will find the cost somewhat more because of the higher fees required of them.

FINANCIAL AID FOR STUDENTS

LOAN FUNDS

For the assistance of deserving students who have not sufficient means to pay all their college expenses a number of loan funds have been established by friends of the University. A loan to a student in any academic year will not ordinarily exceed the amount of his fees during that year.

Unless otherwise specified, application for loans should be addressed to the office of the Director of Placement and Student Aid, who administers the awarding of loans under the policies of a faculty committee. Applications for loans should be made at least one month before the time the funds will be needed.

In the following alphabetical list the category of students eligible for the loan is indicated.

O. C. Aderhold Fund. Students in the University.

Lucille Alexander Fund. Juniors and seniors in the School of Home Economics.

Alpha Zeta Fund. Members of the Alpha Zeta Fraternity.

Alumni Association Fund. The College of Agriculture.

Preston S. Arkwright Fund. The College of Agriculture.

R. & L. Arnold Fund. The College of Agriculture.

Athens Lions Club. Students of the University.

Atlanta Cotton Oil Company Fund. The College of Agriculture.

Atlanta Journal Fund. The College of Agriculture.

Atlanta Stockyards Fund. The College of Agriculture.

Dupree Barrett Fund. Juniors and seniors in the School of Forestry.

L. H. Beall Fund. The College of Agriculture.

John D. Bolton, Jr. Memorial Fund. Preference to members of the Kappa Alpha Fraternity.

Charles H. Brand Fund. The University.

Mary Upshaw Broach Scholarship Fund. Home Economics Students.

Charles McDonald Brown Fund. The University and The Medical College.

Henry W. Brown Fund. The University.

Shepard Bryan Fund. The College of Agriculture.

Bernice F. Bullard Fund. Men and women students of the University.

Asa G. Candler Fund. The College of Agriculture.

CHARLES H. CHANDLER FUND. The College of Agriculture.
CHAMBERLAIN-JOHNSON-DUBOSE FUND. Juniors and seniors in the School of Home Economics.
A. F. CHURCHILL MEMORIAL FUND. Men and women students of the University.
CITIZENS AND SOUTHERN NATIONAL BANK FUND. The College of Agriculture.
CLASS OF 1926. The University.
OBADIAH LEWIS CLOUD FUND. The University.
MRS. J. H. CLOUDMAN FUND. The College of Agriculture.
LUCY COBB INSTITUTE FUND. Women students who have been residents of Georgia for at least twelve months.
E. T. COMER FUND. The University, preference to be given students from rural sections.
D. A. R.-ELIJAH CLARKE CHAPTER FUND. Women students of the University.
D. A. R.-LILA NAPIER JELKS FUND (Hawkinsville Chapter). Juniors and seniors of the University whose homes are in Pulaski County.
D. A. R. MEMORIAL FUND. The University.
D. A. R.-RICHMOND WALTON MCCURRY FUND. Women students of the University.
D. A. R.-MAY E. TALMADGE FUND. Men and women students of the University.
THE DAWSON FUND. The College of Agriculture and the School of Home Economics.
W. S. DENMARK FUND. Men of the University.
EUGENE AND HARRY DODD FUND. The University.
DRUID HILLS METHODIST MEMORIAL EDUCATIONAL FUND. The University.
J. C. DUKES FUND. Students from Terrell and Coweta Counties in the College of Agriculture, School of Home Economics, and College of Business Administration.
EPSILON SIGMA PHI FUND (Alpha Beta Chapter). The College of Agriculture.
EXCHANGE CLUB (Atlanta). The College of Agriculture.
W. W. FINDLEY FUND. The College of Agriculture.
LUCY HURT FISHER FUND. Men and women in the College of Agriculture.
CHAS. W. FORD FUND. The College of Agriculture.
FORESTRY LOAN FUND. The School of Forestry.
FOUR-H CLUB FUND. The College of Agriculture.
FRESHMAN Y COMMISSION FUND. Freshman women of the University.
EBB W. GALLAHER. Men in the University.
GEORGIA-A. & W. P. RAILROAD FUND. The College of Agriculture.
GIRLS CANNING CLUB FUND. Juniors and seniors in the School of Home Economics.
JAMES C. HARRIS FUND. Men and women students in the University.
FRANK HAWKINS FUND. The College of Agriculture.
HAROLD M. HECKMAN, JR. FUND. Students in the University.
A. L. HULL MEMORIAL FUND. The University.
J. H. HUNT FUND. Men and women students of the University, preferably from North Georgia.
MRS. GRAHAM JOHNSON FUND. The College of Agriculture.
BESS D. JONES FUND. The College of Agriculture.
JUNIOR LEAGUE, ATLANTA FUND. Juniors and seniors in the School of Home Economics.
J. B. KEOUGH FUND. The College of Agriculture.

Clyde L., Jr., and John King Loan Fund. Men students of the University.
Kirkwood P.-T. A. Fund. The College of Agriculture.
Landscape Architecture Student Loan Fund. Students in Landscape Architecture.
Francis Eugene Lanier Fund. Juniors and seniors in the School of Home Economics.
Francis A. Lipscomb Fund. The University.
Arthur Lucas Fund. The College of Agriculture.
Joseph Henry Lumpkin Fund. The University.
Mr. and Mrs. T. O. Marshall Fund. Men and women students of the University.
R. H. Martin Fund. The College of Agriculture.
Moina Michael Fund. (Given by the American Legion Auxiliary.) Sons and daughters or brothers and sisters of World War Veterans.
Miscellaneous Fund. Students in the University.
Thos. E. Mitchell Funds. Men and women students of the University.
Moon Loan Fund. Men and women students of the University.
National Defense Educational Act Fund. Students in the University.
R. C. Neely Fund. The College of Agriculture.
C. T. Nunnally Fund. The College of Agriculture.
J. Carroll Payne Fund. Juniors and seniors in the School of Home Economics.
Phi Delta Phi Fund. Members of that fraternity.
Benjamin Z. Phillips Fund. Members of the second-year law class.
J. T. Pittard Memorial. Students in the University.
Clifford Pratt Memorial Fund. Students in the University.
Albon W. Reed Fund. The College of Agriculture.
Bertha Rich Fund. Juniors and seniors in the School of Home Economics.
E. Rivers Fund. The College of Agriculture.
Jas. D. Robinson Fund. The College of Agriculture.
S. D. V. Fraternity Fund. The College of Agriculture.
John D. Simmons Fund. The College of Agriculture.
Hoke Smith Fund. The College of Agriculture.
Students Loan Fund. Men and women students of the University.
Student Veterans Loan Fund. Veterans in the University.
Mark Sullivan Fund. Men and women students of the University.
Berryman Thompson Fund. Men and women from Coweta County.
Meldrim Thompson Fund. Senior Law students of the University.
Max Thurmond Fund. School of Forestry.
Frances C. Tucker Fund. Women in the University.
Leila Bates Tye Fund. Home Economics 4-H girls.
Louis Wellhouse Memorial Fund. Men and women students of the University.
C. P. Whitehead Fund. The College of Agriculture.
Cecil Wilcox Loan Fund. Men students of the University.
Charles C. Wilson Memorial Fund. Foreign students in the University.
Robert W. Woodruff Fund. The College of Agriculture.
Ida A. Young Fund. Women students of the University.

FOUNDATION LOAN FUNDS

A number of Educational Loan Foundations outside the University lend money to deserving students on terms similar to those of the regular University funds. Students may write these Foundations directly or be recom-

mended by the Director of Student Aid of the University. Largest among these foundations are:

KNIGHTS TEMPLAR EDUCATIONAL FOUNDATION
Mr. Thomas C. Law, Chairman, P. O. Box 1558, Atlanta, Georgia.

PICKETT AND HATCHER EDUCATIONAL FOUNDATION
Mr. Guy E. Snavely, Jr., Executive Secretary, First National Bank Building, Columbus, Georgia.

ROTARY EDUCATIONAL FOUNDATION OF ATLANTA
Mr. Kendall Weisiger, Chairman, 603 Forsyth Building, Atlanta, Georgia.

STUDENT AID FOUNDATION OF THE GEORGIA FEDERATION OF WOMEN'S CLUBS
Mrs. C. T. Pottinger, Executive Secretary, 2475 Rivers Road, N.W., Atlanta, Georgia.

JOHN T. HALL STUDENT LOAN FUND
Mr. Henry C. Smith, Trust Company of Georgia, Atlanta, Georgia.

The civic organizations and clubs throughout the cities of Georgia maintain loan funds for local students. Students should make inquiry of these clubs.

NATIONAL DEFENSE EDUCATION ACT LOAN PROGRAM

The University of Georgia is participating in the loan program sponsored by the U. S. Department of Health, Education, and Welfare. Funds are available to students who can demonstrate need in line with the provisions set forth in the act which became law in 1958. Priority is given to those students who are preparing to teach in public schools, first, and to those with superior ability in science, mathematics, modern foreign languages, and engineering, second. Applications may be secured from the Division of Placement and Student Aid.

STUDENT EMPLOYMENT

Besides the scholarships, honors, awards, and prizes open to University students, the office of the Dean of Students maintains a Bureau of Student Employment in its Office of Placement and Student Aid. One aim of this bureau is to assist students who find it necessary or desirable to earn a part of their college expenses. Work opportunities occur in the libraries, dining halls, dormitories, some academic departments, and in town.

It is very difficult to secure a job for a student before he arrives in Athens. Employers usually insist on personal interviews. A student should come to the University prepared to pay all his expenses for at least the first quarter of his residence.

Each year the bureau assists many students in finding jobs. A student should not expect, however, to be able to earn enough to pay all expenses. The regular academic program of the University provides a full load of work for the average student. A student who does any considerable amount of outside work will find it necessary to carry a reduced load of academic work and to spend a correspondingly longer time at the University.

Additional financial aid for graduate students will be found in the General Catalogue under Graduate School.

PLACEMENT OF GRADUATES

The Office of Placement and Student Aid assists those who have been enrolled as students in securing business and professional positions and teacher appointments. The office is in constant touch with a large number of alumni and business organizations and school systems that are potential employers of University students.

Any person, whether undergraduate or an alumnus, is eligible to register for placement assistance. All seniors and graduate students are urged to have a personal interview with the Director of Placement and Student Aid.

In addition to the over-all campus placement service this office works very closely with the deans of the professional schools in aiding with the placement of their graduates.

The Office of Placement and Student Aid also maintains a Summer Placement Bureau which assists students and graduates to locate summer work with camps, resorts, and industry. Students and graduates should get in touch with the Placement Bureau if they are interested in summer work. For placement information write to the Director of Placement and Student Aid.

THE GEORGIA CENTER FOR CONTINUING EDUCATION

In January of 1957 the University opened the doors of its Georgia Center for Continuing Education, a state wide service especially designed for adults.

The Georgia Center is the outgrowth of the University's general extension program which began in 1922 and provided ever increasing services until 1954 when in response to the Georgia Plan for Continuing Education the W. K. Kellogg Foundation of Battle Creek, Michigan, made a grant of $2,500,000 for the construction of the Georgia Center.

Today increasing numbers of adults are finding it both necessary and desirable to continue their education in non-credit as well as credit courses. The program at the Georgia Center makes it possible for the University to serve these people with its teaching and research resources through personal consultation, printed matter, television, and other communications techniques in a building which is designed for adult comfort and which creates an ideal climate for learning. In addition, the mass media of communications, especially television, are used to extend the program of the Center beyond the campus of the University to the largest number of adults possible.

Within the building five operational areas are linked together to provide maximum service. Visitors attending conferences will be housed in the five story south wing. There are 148 guest rooms, one large dining room, a luncheon area, and a small private dining room.

Lounges and display areas are on the main floor, and conference rooms of various sizes on the second floor. Small conference rooms are arranged for committee work; larger rooms will accommodate from ten to 100 people. The auditorium will accommodate 400 in either formal or informal seating arrangements.

An integral part of the building is the Communications area including television, recording studios, and the work rooms and offices necessary to serve these activities. The Center is currently using closed circuit televi-

sion to serve the conference programs within the Center, is beginning activity in film production, and is expected to begin noncommercial television broadcasting on Channel 8 in 1960.

In building the facility, the University foresees the opportunity to bring all its resources, both physical and intellectual, into direct service to adult groups.

While much of this work will be done within the facility it is the nature of *continuing* education that much must also be done in the local communities throughout Georgia. This building will serve as a general headquarters for ever-increasing services of University Centers and community development.

PROGRAM

The program of the Georgia Center is directed through three major divisions headed by three associate directors under the leadership of the Director of the Center. Instructional Services, Communications Services, and Managerial Services are the major areas.

I. *The Division of Instructional Services* is responsible for:
   a. Conferences and Institutes.
   b. University Centers and Extension classes
   c. Home Study
   d. Community Services

Since the opening of the Center facility in January 1957 conferences and institutes have brought many thousands of adults to the campus. These have represented business and industry, trade groups, civic organizations, volunteer clubs and government agencies. A special staff of conference coordinators familiar with current trends in adult education techniques plan with the representatives of the incoming group and the University faculty to assure a cooperative educational service. By bringing the educational problems of adults to the campus where resources of research and teaching can be concentrated, the University feels that it can increase its actual service to all citizens.

Through *University Centers* in the larger population areas of the state it is possible for local citizens to continue both credit and informal education. These Centers are located at Albany, Augusta, Columbus, Marietta, Rome, and Waycross. The evening programs of Athens and Gainesville are also a part of this service.

Regular academic subjects are scheduled quarterly, primarily during evening hours. Entrance requirements and course content are identical with the standards that apply on the campus. The faculty is approved by the department concerned and by the Dean of Faculties. A number of full-time faculty members are resident in each Center; other instructors are selected from the community. Students satisfactorily completing these classes receive full University credit on transcripts issued by the University Registrar.

Fees for all Continuing Education credit programs are based on a rate of $6 per quarter hour. Since most of the classes are scheduled for five quarter hours each the usual fee is $30 per course. A registration fee of $1 per academic quarter is charged all students in the Centers.

Special certificate courses have been authorized in General Business and in Accounting. Students may elect the courses in these two sequences for

two year terminal programs, omitting some of the normal requirements of the freshman and sophomore years in the usual baccalaureate program.

Along with the credit courses each Center is interested in community programs and participates in the development of group activities, discussions, cultural entertainment and over-all adult educational services.

Extension classes in communities beyond commuting distance of the Centers are developed whenever fifteen or more persons request service and wherever qualified faculty can be made available. Multiple programs are being operated for Fort Stewart and for Warner Robins Air Base.

Home Study seeks to meet the educational needs of those who are isolated and cannot join group programs or who find advantage in the guided study programs which can be followed on individual schedules. College credit work is available in approximately 150 subjects with instruction provided by members of the University System faculties at Georgia State College for Women, Georgia Teachers College and Valdosta State College as well as at the University. A growing program of high school supervised courses is meeting the needs of special students for work on the high school level. In cooperation with a national volunteer group, Recording for the Blind, Inc., the Center provides a unique service of recorded Home Study courses for visually handicapped persons.

Community Services is primarily interested in the over-all development of local communities. A field staff is available to work with community groups in surveying and meeting needs in specialized areas. Faculty members from various departments and colleges are available for community planning. Program materials in many fields—Recreation, International Affairs, Arts, Literature, Citizenship—are available to organizations.

II. *The Division of Communications Services* utilizes open and closed circuit television, tape recording, film production, and graphic arts as an integral part of the program of conferences and short courses held at the Center and to extend the total Center program throughout the State. These communications tools combined with exhibits and library resources supplement the traditional face-to-face method. The Division also operates a photographic service and film library which serves the University and the University System. The Georgia Plan seeks to coordinate all communications techniques for maximum educational impact.

III. *The Division of Managerial Services* is responsible for the efficient management of the business affairs of the entire facility. Budget management, service, and supplies are arranged for the effective operation of all units through this one division.

All educational programs for adults should be based on the expressed desires and needs of those involved. To assure the proper direction of energies and to evaluate the effectiveness of current programs all divisions will study the needs of Georgians and assess programs in action, thus future activities can be based on systematic evaluation for maximum effectiveness.

OTHER UNIVERSITY ACTIVITIES

SHORT COURSES, CONFERENCES, AND INSTITUTES

The various colleges and schools of the University conduct short courses, conferences, and institutes for the purpose of assisting various groups of citizens to keep informed about the latest developments in their respective

fields of interest. Some of these meetings are sponsored by business, professional, and social organizations. Members of the University faculty and outside specialists offer instruction in short courses and conduct lectures, demonstrations and conferences. Public announcement is made from time to time regarding special programs of this type that will be held on the University Campus.

Among the conferences sponsored by the College of Education are the Conference of Superintendents and School Administrators and the Rural Life Conference. For several years the Georgia Congress of Parents and Teachers has held a Parent-Teacher Institute at the University in June.

For many years the School of Journalism and the Georgia Press Association have conducted during the month of February a Press Institute for the editors of the papers of the state.

The College of Agriculture conducts Short Courses for the citizens of Georgia as a definite part of its instructional program. These courses are normally given during the winter months. They deal with any subject-matter related to agriculture in which there is a popular interest. Announcements will be mailed to anyone on request.

Other short meetings held at the University are the Woman's Club Institute, the Garden Club Institute, and the conference for those engaged in insurance work.

The University is glad to cooperate with any organization or group in planning a conference or institute that will fill a worthwhile need. Communications regarding such matters should be addressed to The Georgia Center for Continuing Education, University of Georgia.

INSTITUTE OF STATISTICS

In order to centralize activities in the field of statistics within the University, the University of Georgia Institute of Statistics was organized in 1959. Its principal objectives are: (a) to develop and conduct programs of instruction in statistics at the graduate and the undergraduate levels in both theoretical and applied statistics; (b) to conduct research in the fields both of theoretical and of experimental statistics; (c) to provide statistical services for the several programs of the University of Georgia as the need for such services shall arise.

Since activities of the Institute are University-wide, crossing over school and college lines of administration, the Director reports directly to the Dean of Faculties. Members of the Institute Staff and Faculty may hold joint appointments with other schools and colleges of the University. For convenience, statistics courses and staff are listed after the Department of Mathematics in the College of Arts and Sciences.

A Computing Center equipped with an IBM 650 electronic computer has been established within the Institute as a unit of the Experimental Statistics Laboratory.

THE UNIVERSITY OF GEORGIA PRESS

The University of Georgia Press was established in 1939. One of its purposes is to advance learning and disseminate knowledge by the publication of books that in their content and presentation contribute to a better understanding of human affairs. Another purpose is to encourage creative literary and scientific work by providing facilities for the publication of

the results of such work. The University Press is glad to consider for publication not only the work of University professors but the productions of scholars throughout the nation. A Board of Directors appointed by the Board of Regents and an Advisory Faculty Committee appointed by the President of the University control the publishing policies and supervise the work of the University Press.

Mimeographing

Another service offered by the Press is mimeographing, available to departments and organizations of the University.

For information regarding the Publications or work of the University Press, communications should be addressed to Director of the University of Georgia Press, Athens, Georgia. A list of the publications of the Press will be sent on request.

ATHLETIC ASSOCIATION

The University of Georgia conducts a complete program of intercollegiate athletics. The University is a member of the Southeastern Athletic Conference and abides strictly by the regulations and policies of the conference. Although the University Faculty has general control of internal policies of the University relating to all phases of intercollegiate athletics, the University of Georgia Athletic Association has been created to facilitate the handling of the business and financial side of the intercollegiate program. The President of the University is ex-officio chairman of the Board of Directors and a majority of the members of the Board are faculty members. The other members of the Board are alumni and friends of the University.

The funds of the Athletic Association are subject to the control of the Board of Regents.

ALUMNI SOCIETY

The University of Georgia Alumni Society was organized in 1834 and has been continuously active since that time. Its purpose is to keep graduates and former students of the University interested in and in touch with one another and also to encourage them to manifest a continued interest in the University. The Alumni office has now on file folders and address cards of approximately 40,000 living alumni.

All persons who at any time were matriculated as regular students in the University at Athens are members of the Society. A member who contributes annually to the Alumni Fund has the privilege of voting on all business matters, is eligible for election as an officer in the Society, and receives a subscription to the *Alumni Record*, a monthly magazine about alumni and campus activities. Students are invited to visit the Alumni Office, to confer with the staff, and to learn about the general work of the Society.

The government of the Society is in the hands of a Board of Managers elected by the active members of the Society. Officers of the Society are elected annually. "Alumni Day," the time for class reunions and other alumni celebrations, is held each year at Commencement.

The Director of Alumni Relations is Tyus Butler, whose office is on the second floor of the Academic Building.

The records office of the Alumni Society are on the second floor of the Academic Building, and are under the direction of William M. Crane, Jr., Director of Alumni Biographical Records.

THE UNIVERSITY OF GEORGIA FOUNDATION

In 1937 the Alumni Society through its officers sponsored the organization of the University of Georgia Foundation. The Foundation is a corporation under the laws of the State of Georgia and has a self-perpetuating Board of Trustees. The Board consists of thirty-eight alumni elected from various classes and sections of the state. In addition there are seven trustees emeritus.

The purposes of the University Foundation are to develop the facilities of the University and to strengthen its financial resources by encouraging gifts for the benefit of the University and also to receive, hold, and administer such gifts in accordance with the instructions of the donors. The Board of Trustees of the University Foundation is particularly interested in receiving donations and bequests which will enable it to make financial provision for University needs other than those that are adequately met by state appropriations.

The officers of the University of Georgia Foundation at the present time are Mr. Harrison Jones, President; Mr. Francis M. Bird, Vice President; Mr. Inman Brandon, Secretary; and Mr. Robert B. Troutman, Treasurer. Information regarding the Foundation may be obtained from Inman Brandon, Secretary, 310 Fulton Federal Building, Atlanta 3, or from the President of the University.

The following funds are administered by the University of Georgia Foundation. In addition there are funds listed under Undergraduate Scholarships, Honors, Awards and Prizes which are administered by the Foundation.

The University of Georgia Foundation Unrestricted Fund. The earned income from the unrestricted portion of the University of Georgia Foundation Fund goes primarily to the supplementing of salaries of outstanding professors on the University campus.

John J. Wilkins Memorial Fund. Established in 1941 by John J. Wilkins, Jr. as a memorial to his father for the maintenance of Camp Wilkins.

Memorial Gateway Fund. Established in 1945 by the class of 1921 to erect a memorial.

M. G. Michael Award Fund. Established in 1946 by Leroy and David Michael in honor of their father to provide an annual award to some member of the faculty of the College of Arts and Sciences for excellence in research.

Arthur Lucas Memorial Fund. Established in 1946 by Mrs. Margaret C. Lucas in memory of her husband to promote research and study in audio-visual education.

The Robert Brown Fund. Created in 1956 in memory of Robert Brown (who, after graduating in 1941, gave his life for his country in World War II) to encourage scholarship in, and to provide for lectures for, the School of Law at the University.

The Ferdinand Phinizy Lectureship Fund. Established in 1949 by Dr. F. P. Calhoun in memory of his grandfather, to provide from income, for lecture by persons of national renown.

Phi Delta Theta Memorial Fund. Established in 1949 to provide funds to be lent to the fraternity to finance its chapter house.

The Creswell Research Fund. Established in 1951 in honor of Miss Mary E. Creswell. The income from this fund must be employed either for family grants, for graduate research, or for acquisition of equipment for use in research, in the School of Home Economics.

B. Sanders Walker Memorial Fund. Established in 1952 by B. Sanders Walker as a memorial to his father and grandfather. The income from the fund may be used to benefit the University as the Trustees of the Foundation determine.

Ann McWhorter Memorial Fund. Established in 1956 by Dr. William B. McWhorter in memory of his daughter. The income is to be used to supply books and periodicals for the libraries at the University.

The Rayonier Foundation Grant. Established in 1956 to supplement the regular compensation of the Dean of the School of Forestry for ten years.

Forestry Fund. Established in 1957 by the Forestry Alumni Association to benefit the School of Forestry and students attending that school.

Sigma Chi Fund. Established in 1959 to provide funds to be lent the fraternity to finance its chapter house and for scholarships.

THE GRADUATE SCHOOL

GERALD BOONE HUFF, B. A., M. A., Ph.D., *Dean*
ROBERT ANDERSON MCRORIE, B. S., M. S., Ph. D., *Associate Dean*

HISTORICAL

Although the first statutes of the University contemplated resident graduate students, it was the custom here (as it was in many other colleges and universities) to confer the degree of Master of Arts upon any Bachelor of Arts of good character, who, three years or more after graduation, made application for the degree and paid a required fee. This practice continued to be followed until 1868, at which time a course of study was laid down which candidates for the master's degree were expected to pursue. From 1869 until 1890 the regulations required the candidate to complete successfully the most advanced course in each of the academic (non-professional) schools. In 1892 the requirements for the degree became substantially the same as they are now, though slight modifications have been made from time to time.

Graduate offerings by the University continued to be limited to the master's degree until 1936. Since that time the offering of programs leading to the degree of Doctor of Philosophy in a few fields has been authorized.

The fields in which this degree is presently authorized are Animal Nutrition, Bacteriology, Chemistry, English, Food Technology and Dairy Manufacturing, History, Mathematics, Physics, Plant Sciences, Psychology, and Zoology. The degree of Doctor of Education is offered in professional Education.

Prior to 1910 the graduate work of the University was supervised by the faculty, chiefly through its Committee on Graduate Courses. In 1910 the Board of Trustees set the work apart by the creation of the Graduate School and the appointment of its first dean. In 1940 a Graduate Faculty was established with authority to determine the policies and the standards that are to be applied to graduate work in the University.

GENERAL ADMISSION PROCEDURE

An applicant for admission to the Graduate School should secure from the office of the Graduate School blanks to be used in applying for general admission to the University of Georgia and specific admission to the Graduate School. These applications must be completed 20 days before the opening of the quarter in which the student wishes to register and should be submitted at least six weeks before registration day. *Two official transcripts* of all courses taken by the applicant in college or university must be sent directly to the Dean of the Graduate School from the Registrar of the institution concerned. These transcripts provide information necessary to the dean and the major department and *must be in their hands before the admission of the student may become final.*

A graduate of an accredited college whose transcript is acceptable is admitted as a *prospective candidate* for the degree for which he applies or may be admitted as a *non-degree candidate.*

Graduates of non-accredited colleges may be admitted to the University as *unclassified post-graduates* and may later be admitted to full graduate

standing on a basis of examinations and course work designed to indicate their qualification for regular graduate study.

Only those students who are formally admitted to the Graduate School will be eligible to register in the Graduate School or take graduate courses. Graduates who have been denied admission to the Graduate School, if registered in the University, will be registered through the undergraduate school or college of their choice and classified as *irregular students.* No irregular student will be permitted to register for graduate courses, and no work taken by a student while under this classification may be counted for credit toward any graduate degree.

Should the work of the irregular student prove to be of such quality as to justify his admission to graduate status, reconsideration may be given to his application for admission at any time after he has completed fifteen quarter-hours of approved course work and has taken the Graduate Record Examination.

Any applicant applying for admission must fill out an Application for Admission to the University and must be admitted by the Director of Admissions subject to the requirements stated under the heading Admissions in the General Information Section.

REGISTRATION

After a student has been granted admission to the Graduate School and to the University, his next step will be that of registration for his first quarter's work. The University Calendar is printed on page three of this General Catalogue, and this calendar indicates the registration dates for each quarter. The student will begin the process of registration by securing from the Office of the Registrar permission to register. He will then seek the advice of an authorized member of the staff of his major department in planning his work for the quarter and follow the usual procedure in registration. His registration must be approved by the Dean of the Graduate School.

NUMBERING OF COURSES

Courses numbered 800 and above are open only to graduate students. At least one third of the program of a candidate for the Master of Arts or Master of Science degree must be in courses in which only graduate students are registered. Certain courses devoted to basic fundamental knowledge carry a 400 number for an undergraduate in the senior division and a corresponding 600 number for a graduate student. Other courses intended primarily for candidates for professional degrees carry a 500 number for an undergraduate in the senior division and a 700 number for a graduate student.

Even though he may have a baccalaureate degree, an irregular student may not register for a course bearing an 800 number and must register by the undergraduate number for any course which he may take.

The normal load for a graduate student is 15 quarter hours. Students holding Graduate Assistantships and Teaching Assistantships are expected to enroll for proportionately smaller loads.

DEGREES

The Graduate School recognizes the fact that it exists for a two-fold purpose. In the first place, it seeks to promote scholarship that is thor-

ough, creative, independent in character and fundamental in its approach; it emphasizes such scholarship without specific concern with its applications. In the second place, it seeks to provide advanced training of a scholarly and effective kind in the professional and vocational fields represented in the program of the University.

In keeping with the two purposes mentioned above, the work of the Graduate School is organized under two divisions:—A Division of Advanced General Study, and a Division of Advanced Professional Study. The degrees awarded upon the recommendation of the Graduate Faculty are likewise classified as Advanced General degrees (Master of Arts, Master of Science, and Doctor of Philosophy) and Advanced Professional degrees (Master of Business Administration, Master of Chemistry, Master of Education, Master of Forestry, Master of Home Economics, Master of Landscape Architecture, Master of Laws, Master of Art Education, Master of Music Education, Master of Fine Arts, Master of Agricultural Extension, and Doctor of Education).

The degrees of Master of Arts, Master of Science, and Doctor of Philosophy may be taken in any field of study represented in the University, provided the nature of the subject matter involved gives appropriateness to the degree concerned and provided the adequacy of staff and facilities justifies the offering of the degree.

A. ADVANCED GENERAL DEGREES

Master of Arts. The degree of Master of Arts will be conferred upon candidates who have met the prescribed requirements for this degree with major study in one of the following fields:—Business Administration, Economics, Education, Fine Arts, Geography, History, Journalism, Languages and Literature, Law, Mathematics, Philosophy, Political Science, and Sociology.

Master of Science. The degree of Master of Science will be conferred upon candidates who have met the prescribed requirements for this degree with major study in one of the following fields: Agricultural Economics, Agricultural Engineering, Agronomy, Animal Husbandry, Bacteriology, Botany, Chemistry, Dairy, Entomology, Food Technology, Forestry, Home Economics, Horticulture, Pharmacy, Physics, Plant Pathology and Plant Breeding, Poultry Husbandry, Psychology, Veterinary Pathology, and Zoology.

Doctor of Philosophy. The University has established this degree for the purpose of providing properly qualified students with the opportunity to pursue research and other scholarly activity beyond the point that is possible in programs for the master's degree. At present, opportunity for such advanced graduate work is provided in Animal Nutrition, Bacteriology, English, Chemistry, Food Technology and Dairy Manufacturing, History, Mathematics, Physics, Plant Sciences, Psychology and Zoology. Other fields will be added from time to time as conditions seem to justify. An applicant who is looking forward to work at this level should communicate with the Dean of the Graduate School in advance with reference to the possibility of pursuing work in the field of his choice.

The Ph.D. degree will not be granted upon the completion of any definite amount of work prescribed in advance. It will be granted in recognition of proficiency in research, breadth and soundness of scholarship, and thorough acquaintance with a specific field of knowledge. Evidence of such attainment must be provided through the presentation of an acceptable

thesis based upon independent research and through the satisfactory passing of such written and oral examinations as may be prescribed.

REQUIREMENTS—MASTER OF ARTS AND MASTER OF SCIENCE

1. Admission. In order for a student to be given unqualified admission to the Advanced General Division (1) he must have completed the requirements for the bachelor's degree in a college accredited by the proper regional accrediting association, (2) he must rank in the upper half of his class in his undergraduate college work, (3) he must have completed the equivalent of our undergraduate major in the general field in which he proposes to do his graduate major, (4) he must have completed at least 90 quarter hours of work (exclusive of his major) appropriately distributed in courses devoted to basic factual knowledge in the fields of the arts, English language and literature, foreign languages, mathematics, the natural sciences, and the social sciences, and (5) his admission must be recommended by the members of the staff of his prospective major department and approved by the Dean of the Graduate School.

2. Language Requirements. All candidates for graduate degrees are expected to show correctness and good taste in their use of English, both written and oral. Upon the option of the students' major department, a reading knowledge of French or German may be required of candidates for Advanced General degrees. (The College of Arts and Sciences requires a reading knowledge of French, German, Russian, or Spanish of students majoring in any of its departments).

3. Program. All prerequisites having been met, the requirements for a Master of Arts or Master of Science degree in any field are the satisfactory completion of a program of study which consists of courses carrying a minimum credit value of 40 quarter hours plus the writing of an acceptable thesis. The courses taken must form a logical whole. The program of study must not include any course that has formed a part of the student's program of study for any other degree previously taken. The program must be approved in advance by the major professor and the Dean of the Graduate School.

4. Graduate Record Examination. This examination is required of all students seeking Advanced General or Advanced Professional degrees. It should be taken during the student's first quarter of residence. The dates on which the examination may be taken are indicated in the Graduate School Calendar.

5. Admission To Candidacy. Before the first day of classes of a student's last quarter of residence, he must file an Application for Admission to Candidacy in the office of the Graduate School. This is essentially a certification by the student's major professor and the Dean of the Graduate School that the student's progress to that point is satisfactory. Approval of the application is based on the following specific requirements:

a. Approval by the student's major professor and the Dean of the Graduate school of the undergraduate training of the student, as shown by official transcripts of his college work;
b. Certification by the student's major professor that
   (1) any undergraduate course which has been required has been completed;
   (2) the Graduate Record Examination has been taken and all other requisite preliminary examinations have been passed;
   (3) foreign language requirements, if specified, have been met, and

(4) the student has demonstrated his ability to do advanced work of acceptable character in the field of his choice;

c. The presentation of an outline of his program of study and a plan of work proposed as a basis for his thesis which have the approval of his major professor and the Dean of the Graduate School.

6. Required Standing. An average of B+ must be maintained on the program of study used to satisfy degree requirements, and no grade below C will be accepted.

7. Examinations. In addition to all examinations required for admission to candidacy and all examinations on the courses taken, the candidate must pass an oral examination covering his course work and thesis. This examination will be conducted by a committee appointed by the Dean of the Graduate School, but it will be open to any member of the faculty who may desire to attend.

8. Residence. The minimum residence requirement for a master's degree is one academic year, or three full quarters.

9. Time Limit. All work credited toward the master's degree must be completed within six years. Extension of time may be granted only on conditions beyond the control of the individual.

10. Acceptance of Graduate Credit By Transfer. Transfer of credit for graduate courses is never automatic. In cases in which a course taken at another accredited institution does constitute a logical part of the student's program, transfer of credit may be allowed if recommended by the student's major professor and approved by the Dean of the Graduate School. The credentials presented must show that the student was of regular graduate standing in the institution concerned. Such transfer of credit cannot exceed ten quarter hours and cannot reduce the residence requirement to less than 30 weeks.

11. Extension and Correspondence. Work done in extension or by correspondence will not be credited toward the master's degree.

12. Application for Graduation. At the beginning of the quarter in which the candidate for a master's degree expects to be granted the degree, he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of $10.

13. Thesis. A thesis is required for Master of Arts and Master of Science degrees. It must be based upon primary source materials relating to some problem within the field of the major. It must show that the student has exercised independence of judgment and correctness and good taste in the use of English. Due acknowledgment of the work of others must be made, and an accurate bibliography of all literature used must be included. The research of the student and the preparation of his thesis must be under the direction of a member of the Graduate Faculty who will be designated as his major professor. This person is also responsible for the planning of his program of study.

In each department the thesis carries the number 930, and it may carry from 5 to 50 quarter-hours of credit, depending upon the amount of work devoted to it by the student. This credit must be in addition to the regular course credit requirement of 40 hours.

The master's thesis must be approved by the major professor and placed in the hands of the Dean of the Graduate School for a reading committee at least three weeks before the date of graduation. Two bound copies must be deposited with the University Library and one bound copy with the

student's major department before the degree is granted. These copies must contain the written approval of the major professor, the chairman of the reading committee and the Dean of the Graduate School.

14. Attendance Upon Graduation Exercises. A candidate for a degree must attend the graduation exercises at which his degree is to be conferred, unless he is excused in writing by the Secretary of the Faculty.

REQUIREMENTS—DOCTOR OF PHILOSOPHY

1. Admission. A student will be permitted to register for advanced graduate courses or undertake research, provided the Graduate Faculty is satisfied that he is a person of proper attainment and promise and provided the desired courses can be adequately given and the research adequately supported and directed. No course taken or other work done will be recognized as applying toward the Doctor of Philosophy degree until the applicant has been formally admitted to candidacy for that degree.

2. Advisory Committee. When a student is admitted as a prospective candidate for the Doctor of Philosophy degree, the Dean of the Graduate School will appoint a committee of three to act as his advisers for the period of his study. The members of this committee will assist him in outlining his program and in choosing a subject for his dissertation, and they will advise him in all other matters connected with his program of study and research. The chairman of this committee will be his major professor.

3. Residence. The granting of this degree presupposes a minimum of three full years of study beyond the bachelor's degree, and it cannot be secured through summer work alone. At least three consecutive quarters must be spent in resident study on this campus. If the student holds a part-time assistantship or has other part-time duties, the residence requirement will be increased to provide the equivalent of three quarters of full-time study in residence.

4. Program of Study. The program of study to be followed by the student should be submitted during the first year of his work as a prospective candidate for the Ph.D. degree. It must constitute a logical whole. All requirements for the degree, except the thesis and the final oral examination, must be completed within a period of six years. This time requirement dates from the admission of the student as a prospective candidate for the Ph.D. degree.

5. Preliminary Examination. The satisfactory passing of formal preliminary written and oral examinations is required of the student *before admission to candidacy*. These examinations are given by a committee appointed by the Dean of the Graduate School, and the oral examination is open to members of the faculty generally.

6. Foreign Languages. A reading knowledge of two modern foreign languages is required of each candidate for the Doctor of Philosophy degree. French and German are the recommended languages, but any modern foreign language may be substituted for one of these where it can be shown to have greater pertinence to the student's program of study and interests. Such a substitution must be recommended by the student's major professor and approved by the Advanced General Committee and the Dean of the Graduate School.

7. Admission to Candidacy. Not later than one academic year before the proposed graduation date, a prospective candidate for the Doctor of Philosophy degree must file a formal application for Admission to Candidacy. This application must show that (1) the *preliminary examinations*

described above have been passed; (2) the foreign language requirements have been met; and (3) a program of study and research has been approved by the *Advisory Committee* and the Graduate Dean. Admission to candidacy is a certification that the student has demonstrated the scholarly maturity necessary for independent research.

No member of the faculty of the University of Georgia above the rank of instructor may become a candidate for a doctor's degree at the University.

8. Application for Graduation. At the beginning of the quarter in which the candidate expects to be granted the degree, he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of $25.

9. Dissertation. Each candidate for the doctorate must present a dissertation, or thesis, on some subject connected with his major field of study. The dissertation must represent originality in research, independent thinking, scholarly ability, and technical mastery of some field. Its conclusions must be logical, its literary form must be acceptable, and its contribution to knowledge should merit publication.

When the dissertation has been read and approved by the student's major professor and the members of his advisory committee, it may be submitted to the Dean of the Graduate School with a request that a reading committee be set up to represent the Graduate Faculty in passing upon its acceptability. For this purpose three typewritten copies of the completed thesis must be submitted, and this must be done at least four weeks before the proposed date of graduation. When the dissertation has been finally approved, the original copy in manuscript form and one bound copy must be filed with the University Library, and one bound copy with the major department. Each copy must carry a certificate of approval signed by the major professor, the chairman of the reading committee and the Dean of the Graduate School.

Before the degree will be awarded, the student must file with the Dean of the Graduate School three copies of an acceptable abstract (not more than 500 words) of the dissertation. At the same time, he must file a receipt showing that he has deposited with the Treasurer of the University the amount of $25 to cover the cost of microfilming the dissertation. If the student desires to have his dissertation copyrighted, he must pay an additional charge of $5 plus the cost of two positive prints required by the Copyright Office.

10. Final Examination. When the candidate's dissertation has been approved and all other requirements of his program have been met, his major professor may recommend to the Dean of the Graduate School that he be admitted to his final oral examination. This examination will be based upon his dissertation and upon the general fields of his program of study. The final examining committee will consist of such persons as may be appointed to it by the Dean of the Graduate School. All final oral examinations will be open to any member of the faculty who may desire to attend.

B. ADVANCED PROFESSIONAL DEGREES

Master of Business Administration. The minimum requirement for this degree is a program of 60 quarter hours of approved course work with a minimum residence of four quarters. Any approved baccalaureate degree may be accepted as the prerequisite background for the program.

A student who holds the equivalent of the Bachelor of Business Administration degree may be able to qualify by meeting the minimum requirements. Others will be required to complete from 5 to 40 hours of additional work in business or economics courses, depending upon the nature of the applicant's previous training.

Candidates for this degree must complete for credit a minimum of 15 quarter hours in courses numbered 800. At least 45 hours of the student's program must be in the fields of business administration and economics.

MASTER OF CHEMISTRY. Prerequisite degree: Bachelor of Science in Chemistry or its approximate equivalent. For students who hold assistantships, this degree will require a minimum of two years of graduate work, the second year being devoted in large part to research.

A student will be admitted to candidacy for this degree only after he has shown a reading knowledge of both French and German and after he has passed preliminary written, and possibly oral examinations given by the Department of Chemistry. These examinations cover in a general way the divisions of inorganic, organic, analytical and physical chemistry. The written examination on these four fields will constitute the student's final written examination. Any student who fails to pass the examinations on two of these divisions or who fails to pass any re-examination will be requested to withdraw his application for admission to candidacy for this degree. The final oral examination is given after the thesis has been approved. It is primarily a defense of the thesis.

The degree of Master of Chemistry is for those students who intend to follow chemistry as a profession, especially for those who expect to continue their studies toward the doctorate in chemistry. It, therefore, differs from the degree of Master of Science with a major in chemistry by being more professional in character.

MASTER OF EDUCATION. This degree is designed for the students whose vocational objectives call for a background of professional training rather than experience in research. A student who contemplates becoming a candidate for this degree should seek the advice of the Chairman of the Division of Graduate Studies of The College of Education as to the program he should follow. This degree may be attained through either of the two following programs of work:

A. The requirement for the degree of Master of Education may be met by the completion of an approved program of 11 courses (55 quarter hours) and residence of a minimum of 36 weeks, with at least three of the courses in the student's program being in fields other than Education. Under this plan, the following two courses must be included in the student's program: Education 826, *Methods of Applied Research in Education,* and Education 921, *Laboratory in Applied Education.*

B. Under this option, the requirements for the Master of Education degree may be met by 60 quarter hours of approved course work, these courses to include a minimum of 20 quarter hours outside the field of Education.

MASTER OF ART EDUCATION. Prerequisite degree: An approved baccalaureate degree. The minimum requirement for this degree is an approved program of study consisting of 50 quarter hours of course work in Art, Art Education, and Education combined, plus Art Education 921, *Laboratory in Applied Art Education.* A minimum of four quarters of resident study is required.

MASTER OF MUSIC EDUCATION. Prerequisite degree: An approved baccalaurate degree. The minimum requirement for the Master of Music Edu-

cation degree is an approved program of study consisting of 50 quarter hours of course work in Music, Music Education and Education combined, and five quarter hours in applied Problems in Music. A minimum of four quarters of residence will be required. A general musicianship examination must be passed during the final quarter of work.

MASTER OF FINE ARTS. The requirement for this degree is the satisfactory completion of a minimum approved program of 50 quarter hours of course work and a creative project or problem to be designated as 921, which will carry five quarter hours credit. The project requirement may be satisfied by a large composition in *music* or by a solo recital which indicates a graduate quality of work (recording of the recital must be deposited in the University Library), a creative project or original research in theatre history, aesthetics, or criticism in *drama*, or a creative project of acceptable quality in *art*.

In *art*, emphasis will be placed upon a high degree of technical and artistic accomplishment. The student must also have a general knowledge of art history and criticism.

In *drama*, emphasis will be placed not only upon a high degree of technical and artistic accomplishment but also on a general knowledge of theatre history and dramatic literature.

In *music*, the student may select composition, musicology or applied music as his or her special field.

The prerequisite degree for a program in art, drama, or music is the Bachelor of Fine Arts, or its equivalent.

MASTER OF FORESTRY. Prerequisite: Bachelor of Science in Forestry degree or equivalent. The minimum requirement for the degree of Master of Forestry is an approved program carrying 55 quarter hours of credit. Twenty quarter hours must be in forestry and so selected as to form a logical major. The program must include Forestry 921 for which the student will be allowed five quarter hours credit. Fifteen quarter hours of additional credit must be earned in forestry or a closely related field. The remaining 15 quarter hours must be taken outside the field of forestry. No thesis is required.

MASTER OF HOME ECONOMICS. Prerequisite degree: Bachelor of Science in Home Economics, or equivalent degree. The minimum requirement for the degree of Master of Home Economics is an approved program of 11 courses (55 quarter hours) with four quarters of resident study. At least four courses must be taken in a selected field in home economics. These must include Home Economics 921, *Problems in Home Economics* on which an acceptable written report must be presented. At least two courses in the student's program must be from fields other than home economics.

MASTER OF LANDSCAPE ARCHITECTURE. Prerequisite degree: Bachelor of Landscape Architecture, Bachelor of Architecture or equivalent degree. The requirement for this degree is an approved program of at least 40 quarter hours of course work and an acceptable thesis.

MASTER OF LAWS. Prerequisite degree: Bachelor of Laws from an approved school of law. At least one academic year of full time study is required. The thesis and not less than one-half of the student's course work must be in the general field of law. The program for this degree provides opportunity for the student to specialize in a chosen field of law or extend his knowledge of the general field of law.

DOCTOR OF EDUCATION. Among workers in the field of Education a demand has developed for advanced professional training which differs in

purpose and content from the principles upon which the degree of Doctor of Philosophy is based. As a consequence of this demand, the University of Georgia has followed the example of many American universities in establishing the degree of Doctor of Education. This degree places major emphasis upon training for a career as a skilled practitioner in administration, teaching, or other professional educational service.

GENERAL REQUIREMENTS FOR PROFESSIONAL MASTERS' DEGREES

The foregoing statement of Advanced Professional Degrees indicates the specific requirements for each professional master's degree. The general requirements which apply alike to all of them are summarized below.

1. Admissions. In order for a student to be granted full admission as a prospective candidate for a Professional Master's degree (1) he must have completed the requirements for the bachelor's degree in a college accredited by the proper regional accrediting association, (2) he must have ranked in the upper half of his class in his undergraduate college work, (3) he must have completed the specific professional work that is considered by the professional school or college concerned to constitute a necessary background for advanced professional training, (4) he must exhibit the personal qualities and the intellectual capabilities that are considered essential to success in his chosen field, and (5) he must be recommended by the staff of his prospective major department, school, or college and approved by the Dean of the Graduate School.

2. Language Requirements. All candidates for graduate degrees are expected to show correctness and good taste in their use of both written and spoken English. There is no foreign language requirement for any professional master's degree except Master of Chemistry.

3. Program. The program of study of each candidate for a professional master's degree will be determined by the school or college concerned in accordance with requirements previously established and approved by the Graduate Faculty for the advanced professional degree which the student seeks. Each program will be subject to approval by the dean of the college concerned and the Dean of the Graduate School.

4. Graduate Record Examination. This examination is required of all students seeking Advanced General or Advanced Professional degrees. It should be taken during the student's first quarter of residence. The dates on which the examination may be taken are indicated in the Graduate School Calendar.

5. Admission to Candidacy. An Application for Admission to Candidacy must be filed in the office of the Graduate School before the first day of classes in the student's final quarter of residence. Approval of this application is a certification that the student has made satisfactory progress to this point and is granted subject to the conditions below:

a. Approval of the undergraduate training of the student by the dean of the school or college concerned and the Dean of the Graduate School;
b. Certification by the student's major professor and the dean of his college that
   (1) any required undergraduate work has been completed,
   (2) the Graduate Record Examination has been taken and all other requisite preliminary examinations have been passed,
   (3) the student has demonstrated an aptitude for work in the field of his choice and an ability to do advanced work of an acceptable character;

c. The presentation of a program of work that has the approval of his major professor, the dean of the school or college concerned, and the Dean of the Graduate School.

6. Required Standing. An average of B+ must be maintained on the program of study used to satisfy degree requirements, and no grade below C will be accepted.

7. Examinations. In addition to all examinations required for admission to candidacy and all examinations on the courses taken, the candidate must pass a final oral examination based upon his total program for the degree. This examination will be conducted by a committee appointed by the Dean of the Graduate School at the request of the dean of the college concerned. It will be open to any member of the faculty who may desire to attend.

8. Residence. The minimum residence requirement for any advanced professional degree is three quarters, and certain of these degrees will require from four to six quarters.

9. Time Limit. All work credited toward the master's degree must be completed within six years. Extension of time may be granted only on conditions beyond the control of the individual.

10. Acceptance of Graduate Credit by Transfer. Transfer of credit for graduate courses is never automatic. In cases in which a course taken at another accredited institution does constitute a logical part of the student's program, transfer of credit may be allowed if recommended by the student's major professor and approved by the Dean of the Graduate School. The credentials presented must show that the student was of regular graduate standing in the institution concerned. Such transfer of credit cannot exceed ten quarter hours and cannot reduce the residence requirement to less than thirty weeks.

11. Extension and Correspondence. Graduate credit is not allowed for work done in extension or by correspondence.

12. Application for Graduation. At the beginning of the quarter in which the candidate for a master's degree expects to be granted the degree he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of $10.

13. Attendance Upon Graduation Exercises. A candidate for a degree must attend the graduation exercises at which his degree is to be conferred, unless he is excused in writing by the Secretary of the Faculty.

REQUIREMENTS—DOCTOR OF EDUCATION

1. Admission. Students who desire to pursue advanced professional training in Education beyond the master's degree and with a view to becoming candidates for the Doctor of Education degree will be expected to file formal application and present themselves to the faculty of the College of Education for special tests and interviews. Recommendation on the student's admission will be made by the College of Education only after its screening procedures have been carried out. Admission will be upon the recommendation of the Dean of the College of Education, or his authorized representative, and approval by the Dean of the Graduate School.

2. Advisory Committee. When a student has been admitted as a prospective candidate for the Doctor of Education degree, the Dean of the Graduate School will appoint three persons recommended by the Dean of the College of Education to serve as an advisory committee for the student, the chairman of the committee being his major professor. The members

of this committee will advise the student in planning his program of study, in choosing a subject for his dissertation, and in the pursuit of his program toward the degree.

3. Residence. The degree presupposes a minimum of three full years of study beyond the bachelor's degree and it cannot be secured through summer work alone. At least three consecutive quarters must be spent by the student in resident study on the campus of the University of Georgia. If the student holds a part-time assistantship or has other part-time duties, the residence requirement will be adjusted to make it equivalent to three quarters of full-time study. In individual cases, such modification of the residence requirement as may seem necessary to meet the need for approved field work may be made, such modification being subject to approval by the student's advisory committee, the Dean of the College of Education and the Dean of the Graduate School.

4. Program of Study. The program of study to be offered by the student for the degree should be submitted during the first year of his work as a prospective candidate for the degree. It must provide a major concentration in the field of Education and a minor concentration in courses outside the field of Education and significantly related to the student's vocational objectives.

All requirements for the degree except the thesis and final oral examination must be completed within a period of six years. This requirement dates from admission of the student as a prospective candidate for the Doctor of Education degree.

5. Preliminary Examination. As a prerequisite to admission to candidacy for the Doctor of Education degree, the student must pass satisfactorily a formal preliminary examination (written or oral) on his major and minor areas of concentration. This examination will be administered by the student's advisory committee and such other persons as may be appointed by the Dean of the Graduate School.

6. Admission to Candidacy. Before the student may become a candidate for the Doctor of Education degree he must have had at least two years of successful experience in teaching or in a closely-related field of work, he must have had a broad background of training, and he must have demonstrated to the faculty of the College of Education those personal qualities that are considered by it to be essential to success in the field of teaching. These conditions having been met, the student may be admitted to candidacy upon (1) approval of the student's program of study and proposed research for the thesis, (2) satisfactory passing of the preliminary examinations, (3) the demonstration of such competency in the methodology of educational research and such proficiency in the use of language as his advisory committee requires of him. Application for admission to candidacy must be filed with the Dean of the Graduate School for his approval not less than one academic year before the proposed date of graduation.

No member of the faculty of the University of Georgia above the rank of instructor may become a candidate for a doctor's degree at the University.

7. Application for Graduation. At the beginning of the quarter in which the candidate expects to be granted the degree, he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of $25.

8. Dissertation. The dissertation required of the candidate for the Doctor of Education degree is the most important single requirement for the degree. It should demonstrate the intelligent application of research techniques to the solution of a problem in educational practice. The problem chosen must be definite and appropriately limited in its scope, the method of investigation must be exact, the source materials must be intelligently evaluated, and the conclusions must be well-supported. It is expected that the pursuit of this study will involve not less than one full year of work—frequently, much more. The finished dissertation must show correctness and good taste in the use of English.

The dissertation may be finally accepted only after it has been read and approved by a committee appointed by the Dean of the Graduate School.

When the finished dissertation has been read and given approval by the student's major professor and the members of his advisory committee, it may be submitted to the Dean of the Graduate School with the request that a reading committee be appointed to represent the Graduate Faculty in passing upon its acceptability. For this purpose three typewritten copies of the completed thesis must be submitted and this must be done not less than four weeks before the proposed date of graduation. When the dissertation has been finally approved, the original copy in manuscript form and one bound copy must be filed with the University Library, and one bound copy with the major department.

Before the degree will be awarded the student must deposit with the Dean of the Graduate School three copies of an acceptable abstract (not more than 500 words) of the dissertation, and a receipt showing that he has deposited with the Treasurer of the University the amount of $25 to cover the cost of microfilming the dissertation. If the student desires to have his dissertation copyrighted, he must pay an additional charge of $5 plus the cost of two positive prints required by the Copyright Office.

9. Final Examination. When the candidate's dissertation has been approved by the proper committee and all other requirements of his program have been successfully completed, he will be given a final oral examination upon his dissertation and upon the general fields of his major and minor concentration. The final examining committee will consist of the members of the student's advisory committee and such other persons as may be appointed to it by the Dean of the Graduate School. All final oral examinations will be open to any members of the faculty who may desire to attend.

PROGRAMS FOR TEACHER CERTIFICATION

A. For Majors in Education. :

The Georgia State Board of Education has approved the College of Education to offer graduate training programs leading to the following types of five-year professional certificates:

Teachers—T-5 certificate
Principals—P-5 certificate
Superintendents—Su-5 certificate
Supervisors—Sv-5 certificate
Teachers-Counselors—T-5 certificate (counselors)
Visiting Teachers—VT-5 certificate

In addition to the officially approved programs listed above, the College of Education offers special training facilities for other educational specialists.

Effective with the Summer Quarter of 1951, the College of Education instituted a planned program of training at the sixth-year level (i.e., one year beyond the master's degree) in each of the five areas of specialization listed above. The completion of such a sixth-year program does not result in the awarding of an additional graduate degree or a sixth-year professional certificate; but, upon request, the Dean of the College of Education will furnish the student an official statement certifying that he has satisfactorily completed such a sixth-year planned program of specialized training. Admission to any of the sixth-year programs of training is made on the basis of special qualifying examinations. Inquiries concerning the dates of these qualifying examinations should be addressed directly to the Director of Counselor Training, College of Education.

B. For Majors in Fields Other than Education:

Candidates for degrees in fields other than Education may meet the requirements for a teaching certificate at the five-year level. Non-Education majors desiring to meet the requirements for the T-5 certificate must complete an approved program of graduate studies which includes a concentration in the teaching field supplemented by a minimum of 15 quarter hours of professional courses approved by the Chairman of the Division of Graduate Studies of the College of Education. The T-5 certificate can be obtained only by persons who hold a 4-year professional certificate.

FELLOWSHIPS, ASSISTANTSHIPS, AND SCHOLARSHIPS

A number of qualified graduates may be given financial aid in the form of fellowships, assistantships, or scholarships while pursuing work leading to graduate degrees. Persons holding assistantships are expected to render certain services to the University. Fellowships and scholarships are derived from funds provided for the purpose of subsidizing outstanding students with special interests and carry no obligation to render service.

Alumni Foundation Fellowships. The Alumni Society Foundation supports these fellowships for students who hold master's degrees and are working toward a doctor's degree. The stipend is $2,500 for the academic year. Application forms may be obtained from the Graduate School office and must be completed by February 15.

Advanced Graduate Fellowships. These fellowships are available to students who have done one year of graduate work and who expect to teach. The stipend is $2,000 for the academic year. Application forms may be obtained from the Graduate School office and must be completed by February 15.

Atlantic Steel Company Graduate Fellowship. The Atlantic Steel Company has established an annual fellowship for graduate study and research in Economic Geography in the Geography and Geology Department. The stipend is for $2,400 for a twelve month period and $600 is provided for support of the research. Application should be made to the Head of the Department of Geography and Geology.

National Science Foundation Co-operative Graduate Fellowships. These fellowships are awarded on the basis of ability to citizens of the United States who have demonstrated special aptitude for advanced training in the sciences and who have been admitted to the Graduate School. The stipend is $1,650 for those on a tenure of 9 months and $2,200 for those on a tenure of 12 months. Application forms may be obtained from

the office of the Graduate School and must be completed by the first week in November preceding the anticipated year of tenure.

GRADUATE ASSISTANTSHIPS. Graduate assistantships are considered as carrying third-time employment. This assistantship carries a stipend of $1,500 for the 9-months' session of the University. The Assistant will be expected to assist with the instructional work of his major department, but he will not be placed in charge of any classes or laboratories.

Applications should be filed with the Dean of the Graduate School for consideration by the proper department.

RESEARCH ASSISTANTSHIPS. A limited number of research assistantships are open to graduate students who are qualified to assist faculty members in their research. The stipends carried by these assistantships vary in amount on a basis of the technical experience of the Assistant and the work required of him. The amount of graduate work that may be carried by the Research Assistant will depend upon the amount of work required of him under his assistantship.

Applications should be filed with the department in which the student proposes to work.

TEACHING ASSISTANTSHIPS. The University provides a few teaching assistantships that are open to students who hold the master's degree or its equivalent. These assistantships carry stipends ranging from $1,500 to $3,000 per year, depending upon the experience and the amount of work required of the Assistant.

The amount of graduate work that may be carried by the Teaching Assistant will depend upon the amount of teaching required of him.

These assistantships are not handled through the Graduate School. Application should be made directly to the student's major department.

WILDLIFE CONSERVATION ASSISTANTSHIPS. These assistantships are available to majors in zoology for graduate work in vertebrate ecology. The theses of students holding these assistantships will be directed toward the solution of problems in fisheries biology or wildlife conservation.

These assistantships carry a minimum stipend of $1,440 for a 12-months' appointment.

Application should be made to the Department of Zoology.

COMER FUND ASSISTANTSHIPS. A portion of the income from the Edward T. Comer Fund is used each year to provide several assistantships for work in the Bureau of Business Research on problems relating to Georgia business. The stipend for these assistantships ranges from $500 to $900 for the nine months' session of the University.

Applications should be directed to the Dean of the College of Business Administration.

PHELPS-STOKES GRADUATE SCHOLARSHIP. The holder of this scholarship must pursue studies in one of the following departments—Sociology, Economics, Education, or History. He must make a scientific study based upon the Negro and his adjustment to American civilization. The stipend of this scholarship at present is $500 a year. Publication costs for the study will be paid from the Phelps-Stokes fund.

Application should be made to the student's major department in the University.

HENRY L. RICHMOND GRADUATE SCHOLARSHIP. A portion of the income from the Henry L. Richmond Fund is used to provide scholarships in the Department of Chemistry. One or more $500 scholarships are available each year.

Applications should be directed to the Head of the Department of Chemistry.

MARTIN REYNOLDS SMITH FUND. By the gift of $2,000, Mr. J. Warren Smith has established this fund in memory of his son, Martin Reynolds Smith. The interest from this investment is to be used as prizes for excellence in research in chemistry.

Applications should be directed to the Head of the Department of Chemistry.

EXPENSES

None of the above-mentioned fellowships, assistantships, or scholarships carry remission of fees. Upon recommendation of a student's major department the Dean of the Graduate School is authorized to award to superior students a scholarship which pays out-of-state fees.

Residents of Georgia pay a fee of $195 per academic year of three quarters, payable $65 at the beginning of each quarter. Non-residents pay an additional amount of $100 per quarter. Room, board and laundry will approximate $200 per quarter. Books may be estimated at $60 per year. The total estimated expenses will be about $850 to $950 per year for residents of Georgia.

All students are required to take the Graduate Record Examination before they are admitted to candidacy for a graduate degree. The fee for students taking this examination under the Institutional Plan (scheduled for regularly enrolled students) is $5.

A candidate for the master's degree must pay a $10 diploma fee at the beginning of the quarter of graduation.

A candidate for the doctor's degree must pay a $25 diploma fee at least ten days before graduation. This fee covers cost of both the diploma and the hood.

UNIVERSITY RESEARCH

A university serves the three-fold purpose of the expansion, the preservation, and the dissemination of knowledge, and the graduate school is the division of the university organization that is most intimately concerned with the first of these three functions. Creative scholarship, largely in the form of research in the humanities, the social sciences, the natural sciences and the several fields of their application, constitutes the central endeavor around which graduate work must be developed. In recognition of this fact, the University of Georgia seeks to promote research through its General Research Program, several bureaus, and numerous grants and contracts obtained by its faculty members from sources outside the University itself. Agricultural research is conducted through the Agricultural Experiment Stations of the College of Agriculture.

Some of this research is directed specifically toward the elucidation of problems of applied significance, but much of it grows out of the tendency on the part of scholarly faculty members and students to explore fields of knowledge and to add to that knowledge. In all cases, the research of faculty members is open to participation of qualified graduate students and lends to the general enrichment of the graduate program.

Some examples of programs of research in which The University is participating follow. Other programs are listed with the college and school

sections such as the Bureau of Business Research in the College of Business Administration.

RESEARCH PROGRAM AT THE OAK RIDGE INSTITUTE OF NUCLEAR STUDIES

The University of Georgia is one of the sponsoring universities of the Oak Ridge Institute of Nuclear Studies located at Oak Ridge, Tennessee. Through this cooperative association with the Institute, the Graduate School has at its disposal the facilities of the National Laboratories in Oak Ridge and of the research staffs of these laboratories. When the master's or doctoral candidate has completed his resident work here, it is possible, by special arrangement for him to go to Oak Ridge to do his research problem and prepare his thesis. Such transfer of the student to the Oak Ridge National Laboratories must be initiated through the recommendation of his major professor, and the thesis done there must be recommended by him for acceptance here.

Students may go to Oak Ridge on Oak Ridge Graduate Fellowships which have varying stipends determined by the number of dependents the student has and the level of work that he is doing. All arrangements for these fellowships will be made between the Dean of the Graduate School and the Institute.

MARINE BIOLOGY LABORATORY

In 1953, Mr. Richard J. Reynolds, Jr. made available to the University resources for the establishment on Sapelo Island, Georgia, of a Marine Biology Laboratory.

The Laboratory is staffed by the University and conducts research primarily in the problems of marine biological productivity as found in the estuarine waters adjacent to the Georgia Sea Islands. Interested groups of students and faculty members from the University are given the opportunity to observe the work of the Laboratory on field trips.

THE FRANKLIN COLLEGE OF ARTS AND SCIENCES

John Olin Eidson, A.B., M.A., Ph.D., Litt.D., *Dean*
Howard Templeton Coggin, A.B., M.S., Ph.D., *Assistant to the Dean*

ORGANIZATION

The object of the College of Arts and Sciences is to offer to its students a liberal education. It strives to develop in the individual resourcefulness that will enable him to adapt himself to changing conditions and circumstances and to grapple intelligently with the problems the future is certain to bring. It also attempts to give the student an opportunity to concentrate in certain fields of study that may be helpful in laying a foundation for various professional pursuits

CURRICULUM

The curricula of the College of Arts and Sciences for the freshman and sophomore years, except for a few elective courses, are fairly uniform and are required of all students. In the junior and senior years concentration in one or more of several fields of study is required. These fields of concentration are as follows:

Division of Language and Literature: the departments of Classics, English, and Modern Foreign Languages.

Division of Social Sciences: the departments of Economics, Geography, History, Philosophy, Political Science, Religion, Sociology and Anthropology.

Division of Physical Sciences: the departments of Chemistry, Mathematics, Geology, and Physics and Astronomy.

Division of Biological Sciences: the departments of Bacteriology, Botany, Entomology, Psychology, and Zoology.

Division of Fine Arts: the departments of Art, Music, and Speech and Drama.

DEGREES OFFERED

I. The degrees in which all of the work is taken in the divisions listed above, with the exception of fifteen hours of professional credit permitted as electives are:

Bachelor of Arts, for which the major division must be Language and Literature, Social Sciences, Biological Sciences, Physical Sciences, Art, Speech and Drama, or Music.

Bachelor of Science, for which the major division must be Physical Sciences or Biological Sciences.

Bachelor of Science in Chemistry, for which the major subject must be Chemistry.

Bachelor of Fine Arts, for which the major division must be Fine Arts.

Bachelor of Music, for which the major subject must be Music.

BACHELOR OF SCIENCE IN PHYSICS, for which the major must be Physics.

II. The degrees offered in cooperation with other schools and colleges are:

A.B. or B.S. degree with provisions for a professional certificate for teaching in secondary school. See page 124.

A.B. degree with a pre-professional major in social work. See page 124.

A.B. degree combined with law, see page 140.

B.S. degree combined with medicine or veterinary medicine. See pages 141 and 142.

B.S. degree combined with medical technology. See page 142.

B.S. degree combined with B.S. in engineering. See page 142.

PRE-PROFESSIONAL COURSES

In addition to those professions listed above, the College of Arts and Sciences offers pre-professional courses as a foundation for study in nursing, (see page 143), dentistry, optometry, physical therapy, theology, and for programs in all professional schools and colleges in the University.

ACADEMIC ADVISERS

When an undergraduate student initially registers in the College of Arts and Sciences he is assigned to a faculty member who serves as his academic adviser during his first two years. This assignment is made on the basis of the expressed academic interests of the student. The academic adviser assists the student in registration, and is available during his office hours for counseling with the student about his study methods, his progress, his plans and purposes, and any other matters pertaining to his academic progress. He will hold required conferences with students who demonstrate either unusual ability or unsatisfactory results. He will advise sophomores on the choice of their fields of concentration and refer them to the appropriate department heads for the preparation of senior college sequences.

SELECTING MAJOR

On or before registering for the junior year the student must select the degree for which he is a candidate, the division in which he will take his major work, and the subject in this division in which he expects to major. The professor in charge of the student's major subject is known as the student's major professor, and all courses constituting the students major division program (both required and elective courses) must be approved by this adviser. When approved by the dean of the College of Arts and Sciences this program becomes a requirement for the degree. All approvals to be official must be in writing and filed in the Registrar's records.

ELECTIVE COURSES

In all degrees in the College of Arts and Sciences all courses in the University carrying credit of two or more quarter hours are open as electives to the extent allowed by the degree requirements when approved by the student's major professor and his dean. Not more than fifteen elective hours credit will be allowed for professional courses in the professional schools, except in the degrees with special provision for the teaching certificate.

COURSE NUMBER AND STUDENT CLASSIFICATION

Junior division courses are those numbered under 200; junior or senior division courses are numbered 200 to 299; senior division courses are numbered 300 or above.

A junior division student is one who has either less than 85 academic hours or a grade average below C on the 85 or more hours earned; a senior division student is one who (1) has 85 or more academic hours with a grade average of C or better and (2) has passed the Sophomore Comprehensive examination.

REFUSAL OF CANDIDACY FOR A DEGREE

The College of Arts and Sciences reserves the right to refuse candidacy for a degree to any student, regardless of the number of hours of credit the student may have, if his performance on the Sophmore Comprehensive examination is unsatisfactory.

ACADEMIC WORK LOAD

The normal load of work is 15-17 academic hours, except in a few programs in which 18 hours are required. For the conditions under which extra hours may be taken see page 65.

DROPPING OF COURSES

Except in special cases a student will not be permitted to drop to less than a normal load of 15 academic hours. A student who drops to less than 15 hours of work after the first five days of the quarter will normally receive a grade of WF on the course or courses dropped.

Students registered for extra hours may be permitted by the Dean to drop to a normal load of 15 hours, but if the course is dropped after the first five days of the quarter and the grade received is W, the student forfeits for the next quarter the right to apply for extra hours.

TRANSFER STUDENTS

Students transferring from standard colleges and universities with junior classification will not be required to take the non-laboratory science courses offered in the freshman and sophomore years, provided their transcripts show that they have completed an equivalent number of hours in the division covered by these courses.

Students transferring from any of the junior colleges or other units of the University System to the College of Arts and Sciences are given full credit for all regular curriculum work completed with satisfactory grades. Any uncompleted required courses in the freshman and sophomore years must be taken.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

The main purpose of the curricula for these degrees is to aid in developing an appreciation for cultural pursuits and to prepare the student for

advanced study in the various liberal arts fields and for matriculation in professional schools such as Law, Medicine, Business Administration, and Journalism.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

ADVISERS: JANE APPLEBY, IMOGENE DEAN, AND H. BOYD MCWHORTER.

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Mathematics 100 and Mathematics 101, 356, or Philosophy 358 (See Item 2A below)	10
Political Science 101	5
Foreign Language through 104 (See Item 1D below)	10-20
Science (non-laboratory) or Social Studies (junior division) (See Items 2B and 4C below)	10-0
Military Science 1 or Air Science 5	6
Physical Education 1-2 (for men)	0
Physical Education 1-2 (for women)	5
Total	50-51

	Hours
Literature (See Item 1B below)	10
History 111-112	10
Laboratory Science (See Item 2B below)	10
Social Studies (See Item 4C below)	15-5
Science (non-laboratory)* (See Item 2B below)	0-10
Military Science 2 or Air Science 6	6
Physical Education 1-2 (for men)	0
Physical Education 1-2 (for women)	5
Total	50-51

JUNIOR AND SENIOR YEARS

(95 hours of required and elective junior and senior division courses. See Total Requirements for A.B. and B.S. degrees, page 119.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

Adviser: BARRINGTON L. FLANIGEN

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Mathematics 100-101	10
Political Science 101	5
Foreign Language through 103 (See Item 1D below)	10-15

	Hours
Literature (See Item 1B below)	10
History 111-112	10
Laboratory Science	10
Science (non-laboratory)* (See Item 2B below)	10-15

	Hours
Science (non-laboratory)*	10-5
Military Science 1 or Air Science 5	6
Physical Education 1-2 (for men)	0
Physical Education 1-2 (for women)	5
Total	50-51

	Hours
Laboratory Science, Mathematics or Social Studies (See Items 2B and 4C below)	5-0
Military Science 2 or Air Science 6	6
Physical Education 1-2 (for men)	0
Physical Education 1-2 (for women)	5
Total	50-51

Junior and Senior Years

(95 hours of required and elective junior and senior division courses. See Total Requirements for A.B. and B.S. degrees, as listed below.)

TOTAL REQUIREMENTS FOR A.B. AND B.S. DEGREES

(Unless otherwise specified the requirements are for both the A.B. and B.S. degrees)

Hours

1. Language-Literature 30-50

A. English 101-102 ..... (10)

An average of C is required in the two courses.

B. Literature ..... (10)

Two courses from the following: English 121-122, "Western World Literature"; or French 201-202; or German 201-202; or Italian 201-202; or Spanish 201-202.

C. Classical Culture ..... (10)

This requirement is for Bachelor of Arts students only and may be satisfied by one 10 hour sequence from the following:

Classical Culture 301-302.
Classical Culture 301-358
Classical Culture 354, 356, or 357 and 302
Classical Culture 354, 356, or 357 and 358

If Latin or Greek is elected to meet the foreign language requirement (see Item D), the student is exempt from the Classical Culture requirement.

D. Foreign Language ..... (10-20)

For A.B. Students:

A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

A student must complete twenty hours in one language. These twenty hours may be a combination of high school and college courses, but at least ten hours must be in college courses numbered 103 or above.

*A non-laboratory science requirement may be substituted by a laboratory science in the same division.

For B.S. Students:

A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information. A student must complete fifteen hours in one language. These fifteen hours may be a combination of high school and college courses, but at least ten hours must be in college courses, and at least five of these ten hours must be in courses numbered 103 or above.

2. SCIENCE-MATHEMATICS 30-50

A. Mathematics and/or Philosophy ..... (10)

For A.B. students: Mathematics 100 and one course from the following: Mathematics 101, 356, or Philosophy 358.

For B.S. students: Mathematics 100-101.

B. Science ..... (20-40)

For A.B. students: (20 hours of which 10 must be with laboratory). A student must follow either option I or option II.

Option I

(a) Human Biology 101-102 or Botany 110-111 (Botany 121-122) ..... (10)

(b) A double laboratory course from Chemistry 121-122 or Physics 120, 127 or 128 or Geology 125-126 ..... (10)

Option II

(a) Physical Science 101 or Physics 120 and either Earth Science 104 or Chemistry 121 ..... (10)

(b) A double course from Botany 121-122 or Zoology 225-226 ..... (10)

For B.S. students: 40 hours of Science or 30 hours of Science plus 10 hours of mathematics, as follows:

(a) Human Biology 101-102 or Botany 110-111 (Botany 121-122) ..... (10)

(b) Physical Science 101 or Physics 120 and either Earth Science 104 or Chemistry 121 ..... (10)

The student will also take 20 hours (two 10 hour sequences) from any two of the three following groups:

(c) Biological Science Division: Botany 121-122* or Zoology 225-226 ..... (10)

(d) Physical Science Division: Chemistry 121-122 or 122-223 or Geology 125-126 or Physics 127-128 or 128-229 ..... (10)

(e) Mathematics 210 and 254 ..... (10)

3. FINE ARTS 5

Fine Arts 300 ..... (5)

This is a requirement for A.B. students and is an elective for B.S. students.

*Not open to students with credit in Botany 110-111. Botany 121-122 will substitute for Botany 110-111 in (a).

4. SOCIAL SCIENCE 35-40

A. History 111-112 ..... (10)

B. Political Science 101 ..... (5)

C. Social Studies ..... (20-25)

For A.B. students: (25 hours)

Five courses from:

Anthropology 102
Economics 105
Geography 101
History 351 or 352
Philosophy 104 or 305
Psychology 101
Sociology 105

For B.S. students: (20 hours)

Four of the above courses or three of the above courses plus Fine Arts 300.

5. MAJOR (All grades must be C or above) 40

The major consists of a minimum of 40 hours. No course can be used to satisfy any part of the major if it has been used to satisfy any of the requirements listed under Items 1-4 above.

These 40 hours must be distributed as follows:

A. The major subject:

A minimum of 20 hours of senior division courses in one subject. These must be taken after admission to senior division standing and in residence.

B. The major division:

In addition to the 20 hours listed above, the student must take 20 more hours either in the major subject or in the division of the major. At least 10 of these hours must be in senior division courses taken after admission to senior division standing.

The major professor must approve all of the 40 hours in the major.

For the A.B. degree the major may be in any division, but for the B.S. degree the major must be in either the biological or physical science division. By special action of the Dean and the major professor a combined divisional major may be authorized.

6. REQUIRED ELECTIVES 15

None of these can be in any subject which is included in the 40 hours of the major, but they may be taken in subjects that are in the same division as the major subject or subjects.

7. FREE ELECTIVES 5-15

These will vary as needed to meet (1) a minimum of 185 academic hours, (2) all residence and senior division requirements, and (3) any scholastic requirements, such as replacing excess D grades or raising the academic average. To meet these requirements the number of electives may exceed 15 hours.

8. TOTAL ACADEMIC HOURS (Minimum) 185

These 185 hours are exclusive of Military Science 1-2 and Air Science 5-6, and Physical Education 1-2. Not over one-fourth can be in grades below "C" and the average must be "C" or above.

For the A.B. and B.S. degrees with provisions for a professional certificate and the B.M. with a major in Music Education see pages 124, 136.

The requirement of 185 hours is for the regular A.B. and B.S. degrees. For any modification of these degrees, such as provisions for a professional certificate, and for all other degrees, it will be necessary to check the curriculum of the particular degree in order to determine the total hours required.

9. RESIDENCE REQUIREMENTS:

A minimum of three (or six) full quarters in the College of Arts and Sciences. See page 65.

10. SENIOR DIVISION REQUIREMENTS for all degrees in the College of Arts and Sciences:

(a) 60 hours of senior division courses* after reaching senior division standing, and

(b) 45 hours, after senior division standing, of senior division courses in the College of Arts and Sciences while in residence in the College of Arts and Sciences,** and

(c) 30 hours in senior division courses must be taken in residence during the three quarters' work immediately preceding graduation.

Students under one of the combined programs should see the curriculum for that degree concerning residence and senior division requirements.

11. SPECIAL REQUIREMENTS FOR ALL CANDIDATES FOR A DEGREE:

A. Examinations on the Constitutions.

See page 66. Students transferring credit for Political Science 101 from institutions outside of the state will be required to pass an examination on the Georgia Constitution.

B. Sophomore Comprehensive Examination.

This examination is required of all sophomores and also of students who transfer in as juniors or seniors.

C. Examination on the History of the United States and Georgia:

All students receiving a degree from the University of Georgia are required to pass an examination on the history of the United States and Georgia (given at the beginning of the freshman year) unless credit is presented in (1) History 100 or (2) History 351-352 or (3) History 459 and one other course in American history.

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*A student who has satisfied the language requirement for his degree in one foreign language may count the courses taken during his junior and senior years in any other foreign language regardless of course numbers towards his senior division requirement of 60 hours.

**Students in the combined A.B.-LL.B. program may use credits in Advanced Military Science while registered in the Law School toward their senior division requirements for the A.B. degree.

MAJORS IN FOREIGN AREAS WITHIN THE BACHELOR OF ARTS DEGREE

On the advice of their major professor, students may select majors dealing with specific areas outside the continental United States. This option is designed to provide (1) both a cultural background and more intensive study of foreign areas than is possible within a major taken exclusively in a single department, and (2) an undergraduate preparation for advanced studies in foreign areas or international relations.

The student desiring to concentrate in a foreign area should major in one of the following departments: Economics, Geography, History, Modern Foreign Languages, or Political Science. He should consult with the major professor in one of the above departments to select courses from related departments. A minimum of 20 hours of courses numbered above 200 must be taken in the major, and elective courses should be spent in courses in related departments. All other requirements for the A.B. degree, as outlined on pp. 119-122 must be met. It is strongly recommended that the student complete 10 hours in one modern foreign language in courses numbered above 200 which emphasize speaking and writing.

MAJOR IN ART OR MUSIC WITHIN THE BACHELOR OF ARTS DEGREE

	Hours
BASIC CURRICULUM: Same as for A.B. Degree, except omit items 3, 5, and 6	110 to 120
FOR MAJOR IN ART AND MAJOR IN ART HISTORY:	
Freshmen and Sophomore Years—Art 120, 130, 140, 287, 288, 289	24
Junior and Senior Years—Art History (10 hours of which must be Senior Division)	15
Art (Senior division) as approved by major professor	30
Music: Recommended 343, 350 or 358	3-5
FOR MAJOR IN MUSIC:	
Freshman Year—Music 110, 111, 112	9
Sophomore Year—Music 134, 135, 136, 122, 123, 124	15
Junior and Senior Years—Music 350, 353, 370, 371, 442, 462, 456 or 457, Art 317	32
Applied Music—Music 185, 186, 287, 288	12

Electives, when needed, to complete total of 185 quarter hours, exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2.

CURRICULA FOR THE BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES WITH PROVISIONS FOR A PROFESSIONAL CERTIFICATE FOR TEACHING IN SECONDARY SCHOOLS

A.B. Advisers: Jane Appleby, H. Boyd Mcwhorter
B.S. Adviser: Barrington L. Flanigen

The requirements for either degree total 190-200 hours, exclusive of Basic Military Science and Physical Education 1-2, with 155-165 hours to be taken in the College of Arts and Sciences and a minimum of 35 hours to be taken in the College of Education. The program of the individual student will be worked out jointly by the Dean of the College of Arts and Sciences and the Dean of the College of Education. Students are advised to plan the program as early as possible, not later than during the first part of the sophomore year.

REQUIREMENTS

These are the same as for the A.B. and B.S. degrees (see pages 119-122) except that in:

(1) Item 4C.
A.B. degree students take Psychology 101 and three other courses ..... 20 hours
B.S. degree students take Psychology 101 and two other courses ..... 15 hours

(2) Items 6 and 7.
For both the A.B. and B.S. degree these items are replaced by one 5 hour elective in Arts and Sciences and Education 303, 304, 335, 336, 346, 347 and 347 ..... 40 hours

(3) Item 8.
The total number of hours (minimum) 190-200

CURRICULUM FOR THE BACHELOR OF ARTS DEGREE WITH A PRE-PROFESSIONAL MAJOR IN SOCIAL WORK

Adviser: Imogene Dean

The pre-professional concentration in social work is planned to give preparation to students who expect to enter the practice of social work and to lay a sound liberal arts base for professional education in social work.

The requirements for this degree are the same as those listed for an A.B. degree (pages 119-122, inclusive) except that the major is increased from 40 to 58 hours and the number of free elective courses is reduced. A maximum of 15 hours of professional credit is allowed. The requirements are:

	Hours
English 101-102	10
Human Biology 101-102	10
Foreign language (see item 1D, page 119)	10-20
Political Science 101	5

	Hours
Literature (See item 1B, page 119)	10
Mathematics 100 and either Mathemtics 101 or 356 or Philosophy 358	10
History 111-112	10
Laboratory science: A double laboratory course from Chemistry 121-122, or Physics 120, 127 or 128 or Geology 125-126	10
Social Studies: Psychology 101, Sociology 105, Economics 105 and two other courses. (See item 4C, page 121)	25
Fine Arts 300	5
Classical Culture 301-302 (See item 1-C, page 119)	10
Major: (Not to be taken until credit is obtained in Sociology 105 Economics 105, Psychology 101, Political Science 101 and Human Biology 101-102)	
Group 1	43
Psychology 258 or 459	5
Psychology 373	3
Political Science 406	5
Sociology 315, 435, and 470 or 431	15
Home Economics 293 (Sociology 293) and Home Economics 493 or 495	10
Education 452 or Home Economics 490 (Psychology 490)	5
Group 2	15
Select three courses from any of the following:	
Psychology 423, 459; Sociology 427, 551, 552; Political Science 468; Education 455, 521, 523, 512; Home Economics 496 (Education 496)	
Electives, as needed, minimum	12-2
Total	185

BACHELOR OF SCIENCE IN CHEMISTRY

Adviser: A. W. Scott

The curriculum for this degree offers training in the field of chemistry and its allied sciences for students who desire to enter commercial or government laboratories, to enter the teaching profession, to become associated with chemical industries in a non-technical position, or to pursue graduate work in chemistry in order to enter some field of research or college teaching.

REQUIRED COURSES IN FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102 and 121	15
Chemistry 121-122-223	15
Mathematics 100-101, 210	15
Military Science 1 or Air Science 5	6
Physical Education 1 (for men) or Physical Education 1 (for women)	0 5
Total	50-51

	Hours
Physics 127, 128, 229	15
Mathematics 254, 255	10
English 122	5
Chemistry 340a-b, 380	15
Military Science 2 or Air Science 6	6
Physical Education 2 (for men) or Physical Education 2 (for women)	0 5
Total	50-51

An average of B or better is required, both in chemistry and in all freshman and sophomore work, in order to continue in the junior year for this degree, and an average of B must be maintained in both thereafter.

No transfer student will be accepted as a candidate for this degree later than the beginning of his junior year. A student who wishes to take this degree should enter the university no later than the beginning of his sophomore year.

REQUIREMENTS IN JUNIOR AND SENIOR YEARS

(1) POLITICAL SCIENCE 101: Five hours

(2) *GERMAN: Through 103, 15 hours

(3) CHEMISTRY: 342, 411, 480, or 481, 490a-b-c; two of 420, 421, 424, 522.

(4) NON-SCIENCE ELECTIVES: Ten hours

(5) COMPREHENSIVE EXAMINATION: The passing of a comprehensive examination (embracing the principal divisions of chemistry), this examination to be taken toward the end of the senior year.

(6) ELECTIVES: A sufficient number of hours to make a total of not less than 185, exclusive of the required courses in Military Science 1-2, Air Science 5-6, or Physical Education 1-2.

BACHELOR OF SCIENCE IN PHYSICS

The curriculum for this degree is designed so as to give the best preparation possible to those students who desire to pursue a career in physics. It provides the necessary foundation for those students who wish to do graduate work toward advanced degrees so that they may enter some field of research or college teaching, for those who wish to seek employment in commercial and governmental laboratories, and for those interested in entering the teaching profession at the high school level.

*Students who may wish to take graduate work in chemistry are advised to take some Russian or French since a reading knowledge of two foreign languages is required for a doctorate.

Freshman and Sophomore Years

	Hours		Hours
English 101-102	10	Physics 128, 229	10
Mathematics 100, 101, 210	15	Mathematics 254, 255	10
Foreign language (1)	10-15	Chemistry 121	5
Physics 127	5	Biological Science	10
Elective	5- 0	Political Science 101	5
Military Science 1 or Air Science 5	6	Social Science (2)	5
Physical Education 1 (for men) or Physical Education 1 (for women)	0 5	Military Science 2 or Air Science 6	6
		Physical Education 2 (for men) or Physical Education 2 (for women)	0 5
Total	50-51	Total	50-51

Requirements in Junior and Senior Years

Physics 332, 333, 334, 404 and three other courses (3)	35
Mathematics 401 (3)	5
Literature (See Item 1B, page 119)	10
Chemistry 122 and one other Chemistry course	10
Social Sciences (2)	10
Electives (variable but 25 is the minimum)	25
Total	185

(1) See Item ID, page 119, for the B.S. degree.

(2) Social Studies: Anthropology 102, Economics 105, Geography 101; History 111, 112, 351, 352; Philosophy 104, 305; Psychology 101 and Sociology 105. Fine Arts 300 may be substituted for any social science course.

(3) No grade below C in any course in Physics or Mathematics and the grade average must be B or better in these courses.

DIVISION OF FINE ARTS

The Division of Fine Arts is administered by the College of Arts and Sciences. It includes art, music, and speech and drama. The function of this Division is to give training in appreciation, to help students form standards of taste, to promote culture in the entire community, and to train specialized performing artists and teachers. To accomplish these objectives this Division collaborates with other schools, divisions, and departments, especially those of languages, education, and home economics. In the College of Arts and Sciences curricula of four years are offered, with a major in either art, music, or speech and drama.

BACHELOR OF FINE ARTS DEGREE

Advisor: EULALA AMOS

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102	10	Literature (See item 1B, page 119)	10
Political Science 101	5	History 111-112	10
Foreign Language (2)	10	Science (1)	10
Mathematics 100	5	Fine Arts (3)	15 to 21
Fine Arts (3)	15	Military Science 2 or Air Science 6	6
Military Science 1 or Air Science 5	6	Physical Education 2 (for men) or Physical Education 2 (for women)	0 / 5
Physical Education 1 (for men) or Physical Education 1 (for women)	0 / 5		
Total	50-51	*Total	50 to 57

(1) See Item 2B, page 120. Non-laboratory science in either Option I or Option II.**

(2) See Item 1D, page 119, for A.B. degree. BFA majors in Voice are permitted to substitute one language through 103 and one language through 102 for the language requirement.

(3) Major in Art

Only students with averages of C+ or better may be admitted to junior class standing for the purpose of working towards the B.F.A. degree with a major in Art.

Concentration in Art Education, Art History, Art-Home Economics, Advertising Design and Commercial Art, Ceramics, Crafts, Drawing and Painting, or Interior Design:

Freshman—Art 120, 130, 140

Sophomore—Art 131, 132, 133, 287, 288, 289

Major in Music

Concentration in Applied Music, Music Literature, Theory-Composition

Freshman—Music 110, 111, 112, and 171

Sophomore—Music 134, 135, 136, 122, 123, 124, and 172

Concentration in Music Education

Freshman—Music 110, 111, 112, 185 and 187

Sophomore—Music 134, 135, 136, 122, 123, 124, 186, and 188

Major in Speech and Drama

Concentration in General Speech

Freshman— Drama 101
Speech 108
Drama 102

*See requirements for taking extra hours, page 65.

**A laboratory science will substitute for a non-laboratory science in the same division.

Sophomore—Speech 209
Speech 150
Drama 222

Concentration in Drama

Freshman— Drama 101
Drama 102
Speech 108

Sophomore—Speech 209
Drama 103
Drama 222

Concentration in Speech-Drama Education

Freshman— Drama 101
Speech 108
Drama 102
Psychology 101

Sophomore—Speech 150
Speech 209
Drama 222
Social Studies 5 hours

Concentration in Speech Correction

Freshman— Speech 108
Speech 150
Psychology 101

Sophomore—Speech 209
Science 10 hours (See item 2B, page 120). Non-laboratory science in either Option I or Option II.

Concentration in Radio-Television

Freshman— Drama 101
Speech 108
Drama 102

Sophomore—Speech 209
Drama 103
Drama 222

DEPARTMENT OF ART

The Department of Art occupies the entire east wing of the Fine Arts Building. Besides studios and staff offices, it includes a spacious art gallery where periodically changing exhibitions are shown. The old Library Building houses the Georgia Museum of Art in which the Eva Underhill Holbrook Memorial paintings form the nucleus of a rapidly expanding permanent collection. The General Library contains an extensive collection of books and prints in the field of art.

The objective of the Department of Art is to provide training in the fundamental principles of the creative visual arts. Emphasis is given to active experience with tools and materials. A well-balanced program with its courses in drawing and painting, design, art history, art structure, commercial art, crafts, ceramics, sculpture, art education, interior design, photo-

graphic design, and graphics is so integrated that each course functions to advantage in its relations to each of the other courses. From this integration the student is enabled to derive a knowledge of the basic principles underlying all art, and is thereby better equipped to interpret, appreciate, and create works of art.

In the freshman and sophomore years, 33 hours of art are required in addition to the general academic requirements. On entering the junior year, the student selects his major field of concentration from the eight fields offered: Art Education, Art History, Art-Home Economics, Advertising Design and Commercial Art, Ceramics, Crafts, Interior Design, and Painting and Drawing. Upon completion of this program and fulfillment of all requirements, the Bachelor of Fine Arts degree is conferred. In case of students who have majored in Art Education, upon recommendation of the Dean of the College of Education, the State Department of Education will grant a professional certificate to teach Art.

The Bachelor of Arts degree with a major in art is also offered. (See A.B. degree with a major in art.) In the College of Education a Bachelor of Science in Education with a major in art is offered. (See College of Education.)

Through the cooperation of the School of Home Economics the Bachelor of Fine Arts degree with a major in art and a specialization in home economics is offered for those interested in combining art and homemaking.

TRIPS

Each year art majors, accompanied by members of the Art Staff, make trips to leading museums and exhibitions. Sketching and painting trips are made occasionally during the year to localities within driving distance of Athens.

INTERNSHIPS

Arrangements have been made with leading commercial establishments in the South in order that art majors may serve internships during the summer between their junior and senior years. In this manner practical experience is related to the college curriculum.

BACHELOR OF FINE ARTS—MAJOR IN ART

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

Courses to be chosen in consultation with major professor. No course with a grade of D or D+ can be used to satisfy any part of the minimum requirement (40 quarter hours) in a student's major.

For all students: A minimum of 185 academic hours and the fulfillment of the Senior Division requirements, page 122.

1. ART EDUCATION

	Hours
Science (1)	10
Ceramics	5
Art 210 or 504	5
Art History (Senior Division)	5
One from Art 220, 251, 252, 387, 389	5
Two from Art 221, 222, 223, 231, 232, 241, 242, 270, 271, 516	10
Art 513	5
Education 303	5
Education 304, 335.9, 336.9	15
Education 346.9, 347.9, 348.9	15
Music (Recommended 358)	5
Electives	7
	92

2. ADVERTISING DESIGN AND COMMERCIAL ART

	Hours
Science (1)	10
Art 241, Watercolor	5
Art 231	5
Art History (Senior Division)	10
Art 220	5
Art 206, 208, 209, and 210	20
Art 200, Technical Problems	5
Landscape Architecture 155	5
Journalism (Recommended 557)	5
Music (Recommended 350 or 358)	5
Electives (Recommended Art 221, 223; or Art 387 and Drama 335)	17
	92

3. CRAFTS

	Hours
Science (1)	10
Art 210, Lettering	5
Crafts (Senior Division)	15
Arts 220, Photographic Design	5
Ceramics	5
Art History (Senior Division)	10
Landscape Architecture 155	5
One from Art 200, 550, 552	5
Music (Recommended 358)	5
Electives (to be approved by major professor. Recommended Art 221, 208, 206; Ceramics; Sculpture; Drama 335; Religion; Anthropology 102, 211, 301; Psychology 101; Physics 127, 128; Botany 323)	27
	92

4. CERAMICS

	Hours
Science (1)	10
Art History (Senior Division)	10
Ceramics (Senior Division)	30
Art 221, Drawing and Composition	5
Painting (Recommended 231, 241)	10
Crafts	5
Electives (Recommended: Interior Design, Anthropology 102 and 301; Music 358; Sculpture; Landscape Architecture)	22
	92

5. DRAWING AND PAINTING

	Hours
Science (1)	10
Drawing and/or Sculpture	10
Painting and Drawing	25
Art History (Senior Division)	10
Music (Recommended 358)	5
Electives (Recommended: Art 271; Crafts; Drama 335; Landscape Architecture 155; Psychology 101 and Sociology 105)	32
	92

6. ART (HOME ECONOMICS)

Science (1)	10
Art History (Senior Division)	10
Three from Home Economics 105, 120, 175, 293	15
Home Economics (Senior Division)	10-20
Electives (to be approved by major professor)	47-37
	92

7. INTERIOR DESIGN

Science (1)	10
Art 221 or 241	5
Art History (Senior Division)	10
Landscape Architecture 155	5
Interior Design 290, 387, 389, 390, 391	25
Crafts or Ceramics	5
Art 220	5
Electives (To be approved by major professor. Recommended Art 221 or 241; Crafts; Ceramics; Landscape Architecture; Home Economics; Business Administration; Philosophy; Psychology; Sociology)	27
	92

8. ART HISTORY

	Hours
Science (1)	10
Art History (Senior Division)	25
Music (Senior Division: Recommended 358)	5
Electives outside the Art Department (to be approved by major professor)	15*
Electives in Art other than Art History (a minimum of 15 hours must be in one area)	27-37*
	82-92

DEPARTMENT OF MUSIC

Three degrees are offered with a major in music:

Bachelor of Arts
Bachelor of Fine Arts
Bachelor of Music

See page 123 for the Bachelor of Arts curriculum with a major in music.

A student majoring in music for a B.F.A. or a B.M. degree may concentrate in:

a) Applied Music (requiring a public recital, instrumental or vocal);
b) Theory-Composition (requiring an original major work publicly performed);
c) Music Literature (requiring a comprehensive examination);
d) Music Education (specializing in instrumental or vocal work).

The junior division program for a major in music includes the required academic courses in addition to courses in elementary music theory, harmony, history, and applied music. These courses are designed to give the student a practical knowledge of the theory of music, ear training, harmony and sight singing. The senior division courses are designed to give the student a broader and more cultural background in music. Applied music courses are offered each year to music majors and also to students of other departments if they can be accommodated.

Much stress is laid on public performance through weekly music appreciation programs and student recitals. The University Chorus presents a choral program each quarter and the University-Civic Symphony Orchestra performs frequently. These organizations are open to any qualified person. Other performing groups include the University Band, The Dixie Red Coat Band, the Men's Glee Club, the Women's Glee Club, and the Madrigal Choir. One opera or operetta is presented during the winter quarter. An outstanding concert series of internationally known artists and a Chamber Music Festival in the spring add to the cultural atmosphere of the campus.

*Of these elective hours at least 30 must be in the Senior Division.

BACHELOR OF FINE ARTS—MAJOR IN MUSIC

REQUIREMENTS IN JUNIOR AND SENIOR YEARS

(1) Major Concentrations: Hours

(a) Applied Music—public recital (instrumental or vocal).
Music Literature courses 350, 353, 442, 456, 457, 462 22
Music Theoretical Courses 370, 371, 374 13
Conducting 361 2
Applied Music 273, 274 12

(b) Theory-Composition—large original composition in concert, instead of public recital, Music 475, 476, 477 and 478 required; Music 333 recommended; otherwise same as Applied Music.

(c) Music Literature—comprehensive examination and performance before music faculty, addition of 10 hours in Music Literature; otherwise same as Applied Music.

(d) Music Education—a comprehensive examination and performance before the music faculty will be required before graduation. All students must play in Orchestra or Band, or sing in choral organizations regularly.
Theoretical Courses 370, 371, 374, 375 16
Applied Music 287, 288, 289, 290 12
Music Literature Courses—from 350, 353, 442, 456, 457, 462 12
Education Courses 312, 313, 346, 347 20
Methods Courses—choice of:

a. Instrumental: 251, 252, 253, 263, 264, 265, 361, 362, 363, 389 17

b. Vocal: 263, 264, 265; 361, 362, 363, 365 or equivalent, 389 16

(2) Science: 10 hours

(See Item 2B, page 120. Non-laboratory science in either Option I or option II.)

(3) Art: 5 hours

(4) English: One approved senior division course, 5 hours

(5) Electives: A sufficient number of hours to bring the total to 185, exclusive of the required courses in Military Science 1-2 or Air Science 5-6 or Physical Education 1-2. Courses in fine arts, English, history, and foreign languages are especially recommended. 0 to 20 hours.

(6) All music majors must be able to read simple hymns or music of similar difficulty on the piano. All music majors must participate in ensemble groups.

BACHELOR OF MUSIC

Concentration in Applied Music, Theory-Composition and Music Literature.

Adviser: Hugh Hodgson

Freshman and Sophomore Years

	Hours		Hours
English 101-102	10	Literature (3)	10
Foreign Language 103-104 (1)	10	Science (4)	5
Political Science 101	5	Music 134-135-136	9
Music 110-111-112	9	Music 122-123-124	6
Music 143	3	Music 192 (2)	12
Music 191 (2)	12	Music Organization	3
Military Science 1 or Air Science 5	6	Military Science 2 or Air Science 6	6
Physical Education 1 (for men)	0	Physical Education 2 (for men)	0
or		or	
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
Total	54-55	Total	50-51

(1) See Item 1D, page 119. Majors in Voice are permitted to substitute one language (Italian recommended) through 103 and one language (French or German recommended) through 102 for the language requirement.

(2) Voice majors will elect Music 171-172 (voice) and Music 185-186 (piano) for Music 191-192.

(3) See Item 1B, page 119.

(4) 10 hours (5 can be taken in junior or senior year) from the following: Math. 100-101; Human Biology 101-102; Botany 110-111; Botany 121-122; Physical Science 101 and Geograph 104; Chemistry 121-122; Physics 120-127; Geology 125-126; Zoology 225-226.

Junior and Senior Years*

	Hours
Applied Music 293-294 (including senior recital)	24
Music theory 370-371-374	13
Music conducting 361	2
Music literature 350-353-442-455-456-462	24
Music organization	3
History 111-112	10
Science (4)	5
Art	5
Electives	0-11
Total (academic hours)	185

For Voice Majors: Music literature 455-456 will not be required, but these courses and also Music 365 will be recommended.

For Theory-Composition Majors: A large original composition in concert, instead of a public recital, will be required; Music 475, 476, 477, and

478 will be required and Music 333 is recommended; (two applied music subjects may be substituted for one major applied music subject).

For Music Literature Majors: The passing of a comprehensive examination in the history and literature of music; appearance in a public recital before graduation; ten additional hours in music literature are required. (Two applied music subjects may be substituted for one major applied music subject).

For all students: A minimum of 185 academic hours and the meeting of the Senior Division Requirements, page 122.

BACHELOR OF MUSIC—MAJOR IN MUSIC EDUCATION

Adviser: Hugh Hodgson

Freshman and Sophomore Years

	Hours		Hours
English 101-102	10	Science (1)	5
Political Science 101	5	Foreign language 103-104 (2)	10
Music 110-111-112	9	Music 134-135-136	9
Music 143	3	Music 122-123-124	6
Music instrumental methods	6	Music instrumental methods (Instrumental concentration only)	6
Music organization	3	Music organization	3
Applied Music (major) 171	6	Applied Music (major) 172	6
Applied Music (minor) 185	3	Applied Music (minor) 186	3
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	6
Physical Education 1 (for men)	0	Physical Education 2 (for men)	0
or		or	
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
Total	50-51	Total	53-54

(1) Music education majors allowed to substitute 10 hours of science or mathematics (See Science requirements under Bachelor of Music degree, page 135) for foreign language requirement.

(2) See Item 1D, page 119.

Junior and Senior Years*

	Hours
Music theory 370-371; 374-375	16
Music conducting and laboratory, 263-264-265; 361-362-363	9
Music literature (minimum)	8
Music methods 312-313	10
Applied Music (major) 273-274	10
Applied Music (minor) 287-289	6
Choral Materials 365 (vocal concentrations only)	5
History 111-112	10
Art	5
Literature (3)	10
Education 304, 346.10, 347.10, 348.10	20
Electives (unless needed—see below)	0
Total (academic hours)	196-197

(3) See Item 1B, page 119.

*See top of page 137.

*All music majors must:

1. Pass a comprehensive examination covering ear training, theory, music literature, form and music methods during the senior year.
2. Pass the Keyboard Proficiency Test before graduation.
3. Participate in the ensemble group or groups appropriate to the major performance medium.
4. Present a satisfactory public solo performance before graduation.
5. Meet all senior division and residence requirements as outlined on page 122 and a minimum of 196-197 academic hours.

DEPARTMENT OF SPEECH AND DRAMA

The Department of Speech and Drama provides specialized training in general speech, drama and theatre, radio and television, and speech correction. However, many of the courses are open to students who wish to enrich their knowledge and heighten their appreciation of speech and the arts of the theatre. The purpose of the course is threefold: (1) to give an opportunity for talented students to prepare themselves for professional work in the fields of speech, drama, and theatre, speech correction, and children's theatre; (2) to train leaders for the educational field—teachers, directors, and technicians for schools, colleges, and civic theatres; (3) to make available for students in the University certain courses which will aid them in developing an intelligent interest in the fields of speech and drama.

THE UNIVERSITY THEATRE. In addition to the various courses, a series of productions is presented each season by the University Theatre, an organization designed for all students who are interested in any phase of dramatic production. The productions are planned in a way to give students, as nearly as possible, the actual experience of producing plays as they are produced in the professional theatre. They are cast and rehearsed by staff directors and the productions are designed and built by students working under the supervision of the instructors in the various courses. No additional fee is charged for membership in this group.

RADIO AND TELEVISION. The department offers a major in radio-television with emphasis on practical training and laboratory experience under faculty supervision. The core curriculum is a combination of liberal arts courses supplemented with basic courses in speech and drama.

THALIAN-BLACKFRIARS, ZETA PHI ETA, AND PHI KAPPA DELTA. Three honorary societies offer recognition to outstanding students in drama, radio-television, general speech, and speech correction by election to membership in Thalian-Blackfriars, the University of Georgia theatre honorary; Zeta Phi Eta, national speech arts fraternity for women; and in Pi Kappa Delta, National Honorary Forensics Society.

THE SPEECH AND HEARING CLINIC. The general diagnostic services of the Speech and Hearing Clinic are available to individuals who have speech or hearing problems. The functions of the clinic are part of the training program in Speech Correction. Individuals interested in receiving help should contact the Speech and Hearing Clinic for individual and group therapy.

INTERCOLLEGIATE DEBATE. The Department of Speech and Drama assists the University of Georgia in sponsoring intercollegiate forensics activities. All interested students are invited to participate.

BACHELOR OF FINE ARTS—MAJOR IN SPEECH AND DRAMA

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

1. General Speech

Junior

	Hours
Science (1)	10
Speech 386	5
Speech 352	5
Speech 310	5
Speech 350	5
Speech 351	5
*Electives	10
Total	45

Senior

	Hours
Speech 387	5
Speech 412	5
Speech 591	5
Electives	35
Total	50

2. Drama

Junior

	Hours
Science (1)	10
Speech 387	5
Drama 334	5
Drama 335	5
Drama 536	5
*Electives	15
Total	50

Senior

	Hours
Drama 560	5
Drama 429	5
Drama 561	5
Drama 562	5
Speech 591	5
Drama 530	5
*Electives	20
Total	50

*Suggested electives: Education 303, 304, 335, 336, to complete all requirements for Provisional Teaching Certificate.

3. Speech Drama Education

Junior

	Hours
Science (1)	10
Education 303	5
Education 304	5
English 304, 305, 440, or 441	5
Drama 334	5
Speech 350 (or 310)	5
Speech 386 (or 387)	5
Speech 591	5
Total	45

Senior

	Hours
Education 335.5	5
Education 336.5	5
Education 346.5	5
Education 347.5	5
Education 348.5	5
English 310 (or 360)	5
English 420	5
English 422	5
Drama 560	5
Total	45

This curriculum (190 *hours*) *gives the student Professional Teaching Certification.*

(1) See Item 2B, page 120. Non-laboratory science in either Option I or II.

4. Speech Correction

Junior	Hours	Senior	Hours
Psychology 415	5	Psychology 423 or Sociology 427	5
Psychology 490	5	Education 346	5
Education 303	5	Education 347	5
Education 304	5	Education 348	5
Education 335	5	Speech 474	5
Education 336	5	Speech 476	5
Speech 310	5	Speech 591 or 593	5
Speech 412	5	Electives	15
Speech 470	5		
Speech 471	5		
Total	50	Total	50

This curriculum (190 *hours*) *leads to Professional Teacher Certification and with completion of required Speech Clinic clock hours meets Basic Certification of American Speech and Hearing Association.*

5. Radio-Television

Junior	Hours	Senior	
Science (1)	10	Drama 544	5
Drama 429 or 400	5	Drama 545	5
Drama 536	5	Drama 546	5
Drama 386 or 387	5	Drama 560	5
Drama 334 or 335	5	Drama 561	5
Electives	15	Drama 562	5
		Electives (Senior Division)	20
Total	45	Total	50

Suggested electives: Drama 582, 583, 585.

For all students: a minimum of 185 academic hours and the fulfillment of the Senior Division requirements, page 122.

CURRICULUM IN ARTS AND LAW

Combined A.B.-LL.B. Program
(An Eighteen-Quarter Combined Curriculum)

Adviser: Albert Jones

Freshman and Sophomore Years

	Hours
English 101-102	10
Mathematics 100	5
Human Biology 101-102, or Botany 110-111, or Physical Science 101 (Physics 120) and either Chemistry 121 or Earth Science 104	10
Foreign Language 103-104 (See Item 1D above)	10
Political Science 101	5
Social Studies (See Item 4C above)	5
Military Science 1 or Air Science 5	6
Physical Education 1 (for men)	0
Physical Education 1 (for women)	5
Total	50-51

	Hours
Literature (Se Item 1B above)	10
History 111-112	10
Laboratory Science (See Item 2B above)	10
Social Studies (See Item 4C above)	10
Electives	5
Military Science 2 or Air Science 6	6
Physical Education 2 (for men)	0
Physical Education 2 (for women)	5
Total	50-51

Junior Year*

	Hours
History 351 or 352	5
Philosophy 358	5
Classical Culture 301-302 (See Item 1C above)	10
Fine Arts 300	5
Electives (Of which four courses must be numbered 200 or above in Arts and Sciences)	30
Total	55

Three quarters of residence work, including 45 hours in courses numbered 200 or above, devoted exclusively to courses in the College of Arts and Sciences will be required after admission to senior division standing.

For language requirement see Item 1D in list of total requirements.

Senior

Satisfactory completion of the first year of work in the School of Law and a total of 185 academic quarter hours.

*See page 65 for regulations in regard to taking extra hours.

CURRICULUM IN SCIENCE AND MEDICINE

(Combined B.S.-M.D. Program)
Adviser: JOHN W. NUTTYCOMBE

PRE-MEDICAL PROGRAM

Most students will find it necessary to have a degree before they gain admittance to either the Medical College of Georgia or to any other medical school and are therefore advised to follow the regular four year program as outlined on pages 119-122 which leads to the A.B. or B.S. degree. However, students of outstanding ability who plan either to enter the Medical College of Georgia or to seek, without a degree, admittance to some other medical school may take the Combined B.S.-M.D. program outlined below:

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102	10	Literature (See Item 1B, page 119)	10
Mathematics 100	5	Mathematics 101	5
French 103 or German 103	5	Zoology 225-226	10
Political Science 101	5	Physics 127 and 128	10
Chemistry 121-122	10	Chemistry 223	5
Human Biology 101-102	10	Psychology 101	5
Military Science 1 or Air Science 5	6	Military Science 2 or Air Science 6	6
Physical Education 1 (for men) or Physical Education 1 (for women)	0 5	Physical Education 2 (for men) or Physical Education 2 (for women)	0 5
Total	50-51	Total	50-51

*JUNIOR YEAR

	Hours
Chemistry 340a-b, 380	15
Physics 229	5
Economics 105 or Sociology 105	5
History 111-112	10
Zoology 355	5
Electives*** (courses numbered 200 or above in Arts and Sciences)	10
Total	50

(A student will find it difficult to meet the minimum requirements of 140 academic hours* unless he is prepared take either French 103 or German 103 upon entrance to the University)**

Three quarters of residence work, including 45 (35 for those with college credit earned before September 1960) hours in courses numbered 200 or above, devoted exclusively to courses in the College of Arts and Sciences will be required after admission to senior division standing.

SENIOR YEAR

The satisfactory completion of the first year's work at the Medical College of Georgia at Augusta and a total of 185 academic quarter hours.

*See residence rule, page 65.
**See Item 1D, page 119.
***Electives as needed to meet senior division requirements. Ten hours is minimum.

CURRICULUM IN SCIENCE AND VETERINARY MEDICINE

(Combined B.S.-D.V.M. Program)
Adviser: JOHN W. NUTTYCOMBE

This program is designed for those students who wish to obtain both the B.S. and D.V.M. degrees. Under this program a student may after the successful completion of his first year in the University of Georgia School of Veterinary Medicine receive the B.S. degree. The curriculum, for the first two years, is the same as that in the B.S.-M.D. program outlined above with the exception that Dairy 103, Animal Husbandry 101 and Poultry Husbandry 160 must also be taken; and Botany 121-122 replaces Human Biology 101-102.

JUNIOR YEAR

	Hours
Chemistry 340a-b, 380	15
Physics 229	5
Economics 105 or Sociology 105	5
History 111-112	10
Plant Pathology 358	5
Animal Husbandry 358	5
Electives*** (courses numbered 200 or above in Arts and Sciences)	5-15
Total	50-60

Three quarters of residence work, including at least 35 hours in courses numbered 200 or above in the College of Arts and Sciences will be required after admission to senior division standing.

SENIOR YEAR

Satisfactory completion of the first year's work at the School of Veterinary Medicine, University of Georgia, and a total of 185 academic hours.

FIVE-YEAR PROGRAM FOR COMBINED B.S. AND B.S. ENGINEERING DEGREES

The University of Georgia cooperates with the Georgia Institute of Technology in giving a five-year program leading to a B.S. degree from the University of Georgia and the B.S. degree in Engineering from the Georgia Institute of Technology. All students interested in this program should see the Dean of the College of Arts and Sciences.

B.S. DEGREE WITH A MAJOR IN MEDICAL TECHNOLOGY

Adviser: JOHN W. NUTTYCOMBE

The College of Arts and Sciences cooperates with the Medical College of Georgia in giving a B.S. degree with a major in Medical Technology upon completion of 155 hours of work at the University and 30 quarter hours at the Medical College of Georgia. The work at the University of Georgia consists of the following courses:

***Electives as needed to meet senior division requirements.

	Hours
English 101-102, 121-122	20
Political Science 101	5
History 111-112	10
Mathematics 100-101	10
Foreign Languages	10-15
(15 hrs. or 10 hrs. plus elective. See Item 1D, page 119)	
Social Science	20
(4 courses. See Item 4C, page 121)	
Physics (two courses from 127, 128, 229)	10
Chemistry 121, 122, 223, 380, 340 a-b	30
Human Biology 101-102	10
Zoology 225-226	10
One course from the following:	5
(Bacteriology 410, Entomology 376, Zoology 357, 372, 390)	
Bacteriology 350, 409	10
Elective	5-0
Total	155

Three quarters of residence work, including 45 hours in courses numbered 200 or above, devoted exclusively to courses in the College of Arts and Sciences will be required after admission to senior division standing.

Clinical work will be done in the Eugene Talmadge Memorial Hospital. The work at the Medical College of Georgia consists of the following courses given over a period of twelve months:

Medical Microbiology, Biochemistry, Clinical pathology, Hematology, and Immunology.

The B. S. degree with a major in either the Biological or Physical Sciences would, also, equip a student to go into Medical Technology training. In other words, the student does not have to take the combined degree but may take the straight B.S. degree before beginning his technician's training.

PRE-NURSING PROGRAM

The University of Georgia cooperates with the Medical College of Georgia in giving a 14 quarter program in nursing. The pre-nursing program consists of 3 quarters of work in Athens and the remaining 11 quarters in Augusta at the Medical College of Georgia. Upon successful completion of the course, the degree of Bachelor of Science in Nursing is given by the Medical College of Georgia.

Information concerning admission to the School of Nursing at the Medical College of Georgia can be obtained from the Dean, School of Nursing, Medical College of Georgia, Augusta, Georgia.

The three quarters of work at the University of Georgia consists of the following courses:

English 101-102		10
History 111-112		10
Chemistry 121		5
Speech 108		5
Sociology 105		5
Psychology 101		5
Physics 120		5
*Political Science 101	(5)	
*Survey of American History 100	(5)	
Physical Education 1-2		5
Total		50-60

TWO-YEAR PRE-VETERINARY MEDICINE PROGRAM**

Adviser: John W. Nuttycombe

Freshman and Sophomore Years

	Hours
English 101-102	10
Mathematics 100-101	10
Political Science 101	5
Chemistry 121-122	10
Botany 121-122	10
Military Science 1 or Air Science 5	6
Physical Education 1 (for men) or Physical Education 1 (for women)	0 5
Total	50-51

	Hours
Speech 108	5
Dairy 103	3
Animal Husbandry 101	3
Poultry Husbandry 160	3
Zoology 225-226	10
Chemistry 340 a-b	10
Physics 120	5
Animal Husbandry 358 and either Zoology 401 or Plant Pathology 358	10
Military Science 2 or Air Science 6	6
Physical Education 2 (for men) or Physical Education 2 (for women)	0 5
Total	54-55

TWO-YEAR PRE-PHARMACY PROGRAM

Adviser: Mona Mayhorn

In order to be admitted to the professional program in the School of Pharmacy, the student must have completed a minimum of 90 quarter hours of pre-pharmacy courses as specified below, exclusive of Basic Military Science and Physical Education. Students with high academic average, having 90 hours of credit may be admitted with not more than 15 quarter hours of deficiencies in required courses, provided such deficiencies may be completed during the first professional year.

*The State requirement covering the Constitution of the United States and Georgia may be satisfied either by exemption examination or by completing Political Science 101 (5 hours). The State requirement covering the History of the United States and Georgia must be met by passing the examination in this area or completing History 100 (5 hours).

**This program does not lead to a degree from the College of Arts and Sciences.

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
Chemistry 121, 122, 223	15	English 121 or 122	5
English 101, 102	10	Human Biology 101-102	10
Mathematics 100	5	Zoology 226	5
Political Science 101	5	Physics 120	5
Economics 105	5	History (2)	5
Elective (1)	5	Mathematics 101	5
Military Science 1 or Air Science 5	6	Electives (1)	10
Physical Education 1 (for men) or Physical Education 1 (for women)	0 / 5	Military Science 2 or Air Science 6	6
		Physical Education 2 (for men) or Physical Education 2 (for women)	0 / 5
Total	50-51	Total	50-51

Upon completion of this program, the student will be eligible to apply for admission to the School of Pharmacy. Application should normally be made to the Dean of the School of Pharmacy during the Winter Quarter of the sophomore year.

ART

(Fine Arts Building, North Campus, unless otherwise specified.)
Head: Dodd. Staff: Amos, Breithaupt, DeLonga, Dieball, Hazlehurst, McCutchen, Morgan, Pickens, Sanderson, Schwartz, Thomas, Walker, Wall, Wescott.

BASIC DESIGN AND DRAWING

120. ART STRUCTURE. Five laboratory periods. *The Staff.*
Drawing and painting from slides, still life, figure, landscape, modeling in clay. Two visual-audio lectures per week.

130. ART STRUCTURE. Five laboratory periods. *The Staff.*
Problems with emphasis on lettering and layout design. Three-dimensional work in clay, plaster, and wood. Two visual-audio lectures per week.

131. DESIGN. 3 hours. Three laboratory periods. *The Staff.* (Georgia Museum Building)
A study in the creation of two- and three-dimensional design.

132. DRAWING. 3 hours. Three laboratory periods. *The Staff.* (Georgia Museum Building)
Drawing from setups, figures, animals, objects, charcoal, pen, brush and ink, water color, oil, and various media are used.

133. DRAWING AND PAINTING. 3 hours. Three laboratory periods. *The Staff.* (Georgia Museum Building)
A continuation of Art 131 and 132.

140. ART STRUCTURE. Five laboratory periods. *The Staff.*
Drawing and painting. Experience in the manipulation of various three-dimensional materials, wood, paper, metal and synthetics. Two visual-audio lectures per week.

(1) Electives should be chosen from the Humanities, Social Sciences, Psychology or languages and should not be in Science, Business or applied courses.
(2) The History Qualifying Examination will not fulfill this requirement.

PHOTOGRAPHY

220. PHOTOGRAPHIC DESIGN. Prerequisites: Art 130 and consent of instructor. *Mr. Sanderson.*

Creative design through the use of photography. The student will investigate the experimental possibilities of the entire area of the light sensitive medium.

DRAWING, PAINTING, AND COMPOSITION

215. PRINTMAKING. Prerequisites: Art 120, 130, 140, 131, 132, 133 or consent of instructor. *Mr. Morgan.*

An examination of the various printmaking or graphic techniques such as lithography, etching, engraving, drypoint, aquatint and block printing and the execution of original works in these media.

221. DRAWING AND COMPOSITION. Four laboratory periods and one lecture. Prerequisite: Art 120. *The Staff.*

Picture construction through design and composition.

222. DRAWING AND MODELING. Four laboratory periods and one lecture. Prerequisite: Art 221. *The Staff.*

Two and three-dimensional research in the anatomical construction of the human figure.

223. DRAWING AND PAINTING. Four laboratories and one lecture. Prerequisite: Art 221. *Mr. Dodd* and *Mr. DeLonga.*

Advanced drawings and painting for Drawing and Painting majors. Open as an elective by permission of the instructor.

231. PAINTING. Four laboratory periods and one lecture. Prerequisites: Two drawing courses. *Mr. Thomas* and *Staff.*

Introductory painting. Aesthetic consideration of picture structure.

232. PAINTING. Four laboratory periods and one lecture. Prerequisite: Art 231. *Mr. Thomas* and *Staff.*

Technical consideration of the preparation of grounds, mediums, and pigments. Analyses of the techniques of the masters. Oil, tempera, and mixed techniques.

233-234. PAINTING. Four laboratory periods and one lecture. Prerequisite: Art 232. *Mr. Thomas* and *Staff.*

Advanced painting.

241. WATERCOLOR. Five laboratory periods. Prerequisites: one design and one drawing course. *Mr. Thomas.*

Study of transparent watercolor.

242. WATERCOLOR. Five laboratory periods. Prerequisite: Art 241. *Mr. Thomas.*

Continuation of 241 with emphasis upon opaque watercolor (Gouache).

702. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisites: Art 222 and 234. *Mr. Dodd, Mr. DeLonga,* and *Mr. Thomas.*

703. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisite: Art 702. *Mr. Dodd, Mr. DeLonga,* and *Mr. Thomas.*

731. PAINTING. Five laboratory periods. Prerequisites: Art 222 and 234. *Mr. Dodd, Mr. DeLonga,* and *Mr. Thomas.*

732. PAINTING. Five laboratory periods. Prerequisite: Art 731. *Mr. Dodd, Mr. DeLonga,* and *Mr. Thomas.*

800-801. GENERAL ART. Five laboratory periods. *Mr. Dodd* and *Mr. DeLonga.*

804. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisite: Art 703. *Mr. Dodd.*

833. PAINTING. Five laboratory periods. Prerequisite: Art 732. *Mr. Dodd* and *Mr. Thomas.*

ART HISTORY

In the art history courses the student is given an opportunity to become acquainted with the great art of the past, as well as that of the present day. Through this study of the historical, social, and economic conditions of the periods producing art, and through analysis, criticism, and interpretation of the masterpieces, the student acquires knowledge of the fundamental motives and structural principles, and develops a sensitivity to the inherent qualities that make a work of art timeless. The work in art history is closely integrated with the studio work.

Art History courses numbered 300 or above have prerequisites of Art 287, 288 and 289 or permission of instructor.

287. INTRODUCTION TO THE HISTORY OF ANCIENT ART. 3 hours. *Mr. Hazlehurst* and *Mr. Walker.*

A survey of world art from Prehistoric through Medieval times. The formal characteristics of the paintings, sculpture, architecture and some of the minor arts will be analyzed in their stylistic and symbolic developments which will be discussed in relation to the changing cultural backgrounds.

288. INTRODUCTION TO THE HISTORY OF RENAISSANCE ART. 3 hours. *Mr. Hazlehurst* and *Mr. Walker.*

A survey of world art during Renaissance times and up to the Nineteenth Century. The formal characteristics of painting, sculpture, architecture and some of the minor arts will be anayzed in their stylistic and symbolic developments which will be discussed in relation to the changing cultural backgrounds.

289. INTRODUCTON TO THE HISTORY OF MODERN ART. 3 hours. *Mr. Hazlehurst* and *Mr. Walker.*

A survey of world art during the 19th and 20th centuries. The formal characteristics of the painting, sculpture, architecture and some of the minor arts will be analyzed in their stylistic and symbolic developments which will be discussed in relation to the changing cultural backgrounds.

411. AESTHETICS. (See Philosophy 411).

435. ART CRITICISM. Prerequisite: four fine art courses, two of which must be in the senior division. *The Staff.*

Study of the theory of art. Designed as a general elective for advanced students of other departments.

476. HISTORY OF HELLENIC ART. *Mr. Breithaupt* and *Mr. Walker.*

A specialized study of Hellenic architecture, sculpture, painting, and minor arts of the Archaic, Transitional, Fifth Century, Fourth Century, Alexandrian, and Greaco-Roman periods as well as the important periods of Classical Revival in Europe and America. Both literary and Archaeological sources will be used.

480. ART OP THE ITALIAN RENAISSANCE. *Mr. Breithaupt, Mr. Hazlehurst,* and *Mr. Walker.*

A study of architecture, sculpture, and painting of the fourteenth, fifteenth, and sixteenth centuries in Italy.

483. MODERN ART HISTORY. Prerequisites: Art 287, 288, 289 or permission of instructor. *Mr. Hazlehurst* and *Mr. Walker.*

The stylistic and theoretical bases of painting, architecture and sculpture as they developed during the 19th Century and to the present. The contribution of leading figures and movements instrumental in forming the art of today.

484. BAROQUE ART. *Mr. Hazlehurst.*

A study of art from the end of the Renaissance to the Industrial Revolution. Emphasis on the history of painting and its relationship to architecture, sculpture, and literature of the period. Special study is given to such major artists as Bernini, El Greco, Velasquez, Rubens, Rembrandt, Vermeer, Poussin, and Watteau.

487. THE ARTS OF THE UNITED STATES. *Mr. Hazlehurst.*

Architecture, sculpture, painting and the minor arts of the United States from Colonial times to the present. The relationship of the arts to the historical and social backgrounds from which they arise; the contribution of American Art to the general field of artistic developments.

488. ART OF PRE-COLUMBIAN AMERICA. Prerequisites: Art 287, 288, 289 or permission of instructor. *Mr. Walker.*

The art product of America from earliest times through the 15th Century with emphasis given to the pre-Inca and Inca peoples of South America and the Maya, Zapotec, Toltec, Aztec and related peoples of Mexico and Central America.

489. Post-Columbian Latin American Art. Prerequisites: Art 287, 288, 289 or permission of instructor. *Mr. Walker.*

A study of the unique product resulting from the combination of Western Culture with native arts in Latin America from the 15th Century to the present.

491. Medieval Art. Prerequisites: Art 287, 288, 289 or permission of instructor. *Mr. Hazlehurst.*

Begins with the collapse of antique civilization and traces the subsequent art historical developments of architecture, sculpture, painting, and the minor arts in the succeeding period of the Middle Ages. A review of Roman and Early Christian Art, the progression of Byzantine artistic endeavor in the East and of Romanesque and Gothic in the West, concluding with the rise of realism in Europe in the fifteenth century.

880-881. Special Problems in History of Art. Seminar. Prerequisites: Graduate standing and permission of faculty. *The Staff.*

A seminar taking in successive years the creative achievements of a given culture such as the Italian Renaissance, the Middle Ages, the Industrial Revolution, etc. Problems of cultural influence on art, of stylistic analysis, of the connoiseurship will be selected for individual research and group presentation and discussion.

ADVERTISING DESIGN AND COMMERCIAL ART

206. Advertising Design I. Four laboratory periods and one lecture. Prerequisites: Art 131, 132, 133, 208 and 210. *Mr. Dodd.*

Visual communication and graphic techniques.

208. Advertising Layout. Three laboratory periods and two lectures. *Mr. Dieball.*

Fundamentals of color, design, typography, and reproduction related to modern advertising problems. Layout of newspaper, magazine, and direct-mail advertising.

209. Advertising Design II. Four laboratory periods and one lecture. Prerequisites: Art 206, 210, and 231 or 241. *Mr. Dieball.*

Continuation of Art 206. Advanced problems in advertising design including preparation of layouts, comprehensive and finished art, study of reproduction problems.

210. Lettering. Four laboratory periods and one lecture. Prerequisite: Art 30. *Mr. Dieball.*

Principles of lettering and letter construction with experience in lettering as used and reproduced today. Study of typography, in relation to lettering and advertising design.

CRAFTS

250. Weaving. Five laboratory periods. Prerequisites: Art 130 or 255. *Mr. Sanderson.*

Hand-weaving designed for contemporary living. Experience in drapery, upholstery, and suiting with emphasis on color and texture.

251. Textile Design and Printing. Five laboratory periods. Prerequisites: Art 130 and 131. *Mr. Sanderson.*

A course in designing and producing contemporary fabrics by silk screen method.

252. Jewelry and Metal Work. Five laboratory periods. Prerequisites: Art 130, 140, and 131. *Mr. Sanderson.*

A thorough grounding in the techniques necessary to execute well-designed objects in metals including forming, repousse, stone setting, tool making, metal finishing, enameling and centrifugal casting.

550. Textile Design and Printing. Prerequisites: Two Senior Division Art courses including Art 251, and approval of instructor. *Mr. Sanderson.*

An exploration into the creative potentialities of silk screen designing and printing methods, making use of film stencil, tusche, block-out, and photo stencil methods.

552. Jewelry and Metal Work. Prerequisites: Two Senior Division art courses including Art 252, and instructor's approval. *Mr. Sanderson.*

An advanced course in design and fabrication in metal. Creative sculptural use of metal as applied to the human module, whether decorative or functional. Exploration in centrifugal casting, alloying, raising, chasing, lapidary, plating, and allied techniques.

CERAMICS

160. POTTERY. Five laboratory periods. *Miss Amos* and *Mr. McCutchen.*

Form, proportion, and simple ornament as related to pottery shapes. Laboratory exercises and related lectures in handbuilding pottery. No previous art experience is required.

261. POTTERY. Four laboratory periods and one lecture. Prerequisite: Art 160, 161 or 265. *Miss Amos* and *Mr. McCutchen.*

Laboratory exercises and related lectures in the use of the potter's wheel. Examination of pottery in relation to other art processes.

262. CERAMIC DECORATIVE PROCESSES. Four laboratory periods and one lecture. Prerequisite: Art 261. *Miss Amos* and *Mr. McCutchen.*

The ceramic of past civilizations is examined to understand better the forming processes, decorative techniques, and artistic standards in pottery making. The adaptation of these techniques applied to the laboratory as a basis for individual experimentation by the student.

263. CERAMIC CALCULATIONS. Two laboratory periods and three lectures. Prerequisites: Chemistry 121-122 and Art 261. *Miss Amos* and *Mr. McCutchen.*

The chemistry and arithmetic of glazed formulas, composition, and computations studied from the standpoint of technical and artistic points of view.

266. CERAMIC GLAZES. Four laboratory periods and one lecture. Prerequisite: Art 263. *Mr. McCutchen.*

Continuation of Art 263. Emphasis on the adaptation of the fundamentals of glaze behavior to decorative and forming processes.

267. CERAMIC PROBLEMS. Five laboratory periods. Prerequisite: Art 266. *Mr. McCutchen.*

Course for advanced students in ceramics who have sufficient background and technical knowledge to carry on independent projects. Problems combining research in design and ceramic technology are selected in consultation with the instructor.

268. CERAMIC PROBLEMS. Five laboratory periods. *Mr. McCutchen.*

Continuation of Art 267.

560. ADVANCED CERAMIC DESIGN. Five laboratory periods. Prerequisites: Art 267 and 268. *Miss Amos* and *Mr. McCutchen.*

Individual development in the use of the materials and processes of the ceramic designer. Emphasis on the functional and aesthetic requirements of form and ornament in contemporary ceramics.

561. HISTORICAL PROCESSES IN CERAMICS. Five laboratory periods. Prerequisites: Art 267 and 268. *Miss Amos* and *Mr. McCutchen.*

Individual research into ceramics of the past and adaptation of knowledge to technical and aesthetic solutions of contemporary problems.

SCULPTURE

270. SCULPTURE. Five laboratory periods. Prerequisites: Art 120, 130, 140, 131, 132, 133 or consent of instructor. *Mr. DeLonga.*

Fundamentals of three-dimensional design. Figure, animal, and abstract modeling. Analyses of great sculpture. Casting and patinas.

271. SCULPTURE. Five laboratory periods. Prerequisite: Art 270. *Mr. DeLonga.*

Individual problems for advanced students. Stone, wood, and metal.

ART EDUCATION

305. ART PRINCIPLES. Five laboratory periods. *Mr. Pickens* and *Miss Wall.*

Based upon the art needs of youth, the course will deal with socially useful and personally enriching arts. Studio work, films, excursions, gallery visits, readings, discussions and reports.

504. THE VISUAL ARTS IN COMMUNICATION. Prerequisites: Two senior division courses in art and consent of instructor. *Mr. Dieball.* (Georgia Museum Building)

Through creative work, the student will learn to make aesthetic use of three elements—lettering, organization of plastic patterns, and the nature of a technical process—integrated about a purpose, namely, communication.

513. CRAFTS. Five laboratory periods. *Miss Amos.* (Fine Arts Annex)

The course develops ability to design three-dimensionally in terms of material, process, and use. According to the needs of individual students, work is done in clay modeling, puppetry, papier mache, textile printing, simple weaving, and loom construction. Use of native materials is stressed. Students have contact with craft programs for children. The course is planned to meet the needs of teachers.

514. DRAWING AND PAINTING. Five laboratory periods. *Mr. Pickens, Miss Wall* and *Staff.*

Students in this course relate their own work in drawing, pictorial composition, color, and technique to the problems of teaching painting. Through readings, discussions and visits, students study the role of art experience as a means of personal development. Emphasis is placed upon the relationship of art to curricular patterns of the public schools.

515. DESIGN. Five laboratory periods. *Mr. Pickens, Miss Wall,* and *the Staff.*

The purpose of the course is two-fold: (1) to deepen and broaden the design sense of students; (2) to help them develop means of teaching design as fundamental to every art activity. In accordance with needs of students in the class, the course deals with problems of teaching at various age levels.

523. MATERIALS AND DESIGN. Five laboratory periods. *The Staff.* (Fine Arts Annex). (Scheduled only with consent of adviser.)

An advanced course offering opportunity to work in one or more of the following fields: pottery, weaving, silk-screen printing, metal working.

536. TEACHING OF ARTS IN THE SECONDARY SCHOOL. Prerequisites: Two senior division courses in education, two senior division courses in art, and consent of instructor. *Mr. Pickens.* (Fine Arts Annex)

A course for advanced students in art education, supervisors, and administrators. Based upon teaching problems encountered by members of the group, the course will deal with planning, guiding, and evaluating art experiences that meet adolescent and societal needs within various types of curricular patterns.

539. SUPERVISION OF ART. Prerequisites: Four courses in Education; four advanced courses in Art; and consent of instructor. *Mr. Pickens* and *Miss Wall.* (Fine Arts Annex)

Problems deal with the development and administration of an art program to meet needs of pupils and community.

540. ART ACTIVITIES IN THE ELEMENTARY SCHOOL. *Miss Amos* and *Miss Wall.* (Fine Arts Annex)

Students in this course relate their own creative work in painting, designing, and constructing to the teaching of art.

570. ORGANIC DESIGN IN CONTEMPORARY LIVING. Prerequisites: Two Senior Division courses in Education, two senior Division courses in Art, and consent of instructor. *Mr. Pickens, Miss Wall,* and *the Staff.* Fine Arts Annex)

A course for advanced students in designing in terms of space, movement, and light. Abstract problems and those centered directly in life today are explored.

921. LABORATORY IN APPLIED ART EDUCATION. Prerequisites: Four courses in Education, advanced standing in art, and consent of instructor. *Mr. Pickens* and *the Staff.* (Fine Arts Annex)

This course is designed to provide opportunities for advanced students to undertake functional studies of topics or problems in Art Education significantly related to their professional tasks.

INTERIOR DESIGN

290. INTERIOR DESIGN. *Mr. Westcott.*

A study of architecture, concepts of interior space, the great periods of furniture design and allied crafts, as a background for comparison with contemporary architecture, furniture, new materials, methods of manufacture, and present day needs.

387. INTERIOR DESIGN. Five laboratory periods. Prerequisites: Two from Art 131, 132, 133. *Mr. Wescott.*

Shop practice in the problems of interior design. A practical application of the theories of color and light as they relate to interiors and furnishings. Practical work in preparing paints and colors for walls, wood finishing, drapery construction. Use of new materials in accessories.

389. INTERIOR DESIGN. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 155. *Mr. Wescott.*

Drawing and rendering of plans and elevations; measuring and scaling of interiors and furnishings; creative problems in the treatment of interior space, arrangement of furnishings on a basis of design and function.

390. INTERIOR DESIGN. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 155 and Art 389. *Mr. Wescott.*

Creative problems in the designing of chairs, tables, case goods, and accessories. Lectures on design, contemporary materials, and methods of construction.

391. INTERIOR DESIGN. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 155 and Art 390. *Mr. Wescott.*

Individual and group projects in planning or remodeling and furnishing of domestic interiors, or commercial interiors. Emphasis on the creative approach and conception of the problem as a whole. Each problem carried through with complete plans, evaluations, specifications, and perspective renderings.

TECHNICAL PROBLEMS

200. TECHNICAL PROBLEMS. Five laboratory periods. *The Staff.*

A special course for students qualified to carry out individual projects in design, crafts, drawing, painting, sculpture, or ceramics. Work is done independently of the regularly scheduled classes. Scheduling of this course must be approved by the Head of the Department of Art.

ASTRONOMY

(See Physics and Astronomy)

BACTERIOLOGY*

(Baldwin Hall, North Campus; Conner Hall, South Campus; Veterinary Building, South Campus.) (See also each course announcement.)

Head: Payne. Staff: Bennett, Eagon, Foster, Giddens, Hamdy, Howe, Kleckner, McClung, VanEseltine.

For information on additional courses in this and related fields see announcements of the School of Veterinary Medicine and College of Agriculture.

350. INTRODUCTORY MICROBIOLOGY. Three lectures and two double laboratory periods. Prerequisites: 10 hours of biological science, 5 hours of physical science, Chemistry 260 or 340a, or concurrently. Baldwin Hall. *Mr. Eagon, Mr. Howe, Mr. McClung,* and *Mr. Payne.*

A survey of microorganisms with special emphasis on bacteria and their relationship to man.

352. MICROBIOLOGY AND DISEASE. 3 hours. Three lectures or recitations. Prerequisite: Bacteriology 350. Baldwin Hall. *Mr. Payne.*

Distribution and nature of specific pathogens; mechanisms of transmission, pathogenesis and defense; means of control or prevention.

*Students may be held responsible for breakage in laboratory courses.

389. DAIRY MICROBIOLOGY. Three lectures or recitations and two double laboratory periods. Prerequisite: Bacteriology 350. Dairy Building. *Mr. Bennett.*

Determination of numbers and types of bacteria; use of microorganisms in the manufacture of dairy products; study of milk fermentation and disease-producing organisms sometimes occurring in milk.

395. MICROBIOLOGY OF FOODS. Two lectures or recitations and three double laboratory periods. Prerequisite: Bacteriology 350. Food Technology Building. *Mr. Hamdy.*

Deals with microorganisms in natural and processed foods; their origin, nature, and effects on foods; enumeration; relations to health.

409. FUNDAMENTALS OF MICROBIOLOGY. Three lectures or recitations and two double laboratory periods. Prerequisite: Bacteriology 350. Baldwin Hall. *Mr. Eagon* and *Staff.*

Fundamental principles and techniques of general microbiology. Attention will be given to growth, nutrition, inheritance and ecology of representative types of microorganisms.

410. IMMUNOLOGY. Three lectures and two double laboratory periods. Prerequisite: Bacteriology 409 and Chemistry 451, or consent of instructor. Veterinary Building. *Mr. Foster.*

Mechanisms of infection and host resistance; principles and techniques of serology.

411. MICROBIOLOGY OF MARKET MILK AND ICE CREAM. Prerequisite: Dairy Bacteriology 389, Chemistry 260 or 340a. Dairy Building. *Mr. Bennett.*

Microorganisms found in market milk, ice cream and related products and their relationship to spoilage of the products and to epidemology.

412. MICROBIOLOGY OF BUTTER, CHEESE AND CULTURED MILKS. Prerequisite: Dairy Bacteriology 389, Chemistry 340a or 260. Dairy Building. *Mr. Bennett.*

Metagolic changes resulting from the growth of microorganisms occurring in milk and cream intended for manufacturing dairy products and in butter, cheese, and cultured milks; bacteriophage affecting microorganisms.

421. MICROBIAL FOOD ANALYSIS. Prerequisite: Food Technology 414. One lecture and two 4-hour laboratories. Food Technology Building. *Mr. Hamdy.*

Microbiological, physical, and mathematical considerations involved in determining thermal death times, rates of heat penetration, and in calculating the lethality of processes will be studied with particular reference to spore-forming anaerobes. Isolation, enumeration, and factors affecting sporogenesis, dormancy, and spore germination will be studied. The General Method, Ball's Method, and the newer concepts of process calculation will be compared.

422. PATHOGENIC BACTERIOLOGY. Three lectures and two double laboratory periods. Prerequisite: Bacteriology 410. Veterinary Building. *Mr. VanEseltine.*

Studies on the morphological, cultural and physiological properties of the important pathogenic bacterial and mycotic agents; their relation to health and diseases is emphasized.

440. ELECTRON MICROSCOPY. Five recitations or laboratory periods. Prerequisite: Bacteriology 409 or consent of instructor. Baldwin Hall. *Mr. McClung.*

Methods of preparation and examination of biological materials by electron microscopy. A survey of the literature and theory of the instrument. Student preparations and interpretation of results.

450. VIROLOGY. Three lectures and two double laboratory periods. Prerequisite: Bacteriology 410. Veterinary Building. *Mr. Foster.*

An introduction to the viruses and rickettsiae; principles and methodology.

461. MICROBIOLOGY OF SOILS. Three lectures or recitations and two double laboratory periods. Prerequisites: Bacteriology 350; Agronomy 458, or consent of the instructor. Conner Hall. *Mr. Giddens.*

A survey of the microorganisms occurring in the soil; their activities and effects on soils and crops; factors affecting them; enumeration.

470. MEDICAL MYCOLOGY. Two lectures or recitations and three double laboratory periods. Prerequisite: Bacteriology 350. Baldwin Hall. *Mr. McClung.*

A survey of the yeasts, molds and actinomycetes most likely to be encountered by the bacteriologist with special emphasis on the forms that are pathogenic for man and other animals.

480. MICROBIAL GENETICS. Three lectures and two laboratory periods. Prerequisites: Bacteriology 350; Zoology 370. Baldwin Hall. *Mr. Howe.*

A study of the genetics of microorganisms.

816. SEMINAR IN MICROBIOLOGY. One hour per week, maximum credit three quarters. Available to majors in bacteriology, zoology, plant sciences, agriculture, with two courses in bacteriology as prerequisite. Required for all graduate students in bacteriology throughout residence. Baldwin Hall. *The Staff.*

Meetings for discussion of research and new developments in the field.

820. ADVANCED VETERINARY MICROBIOLOGY. Prerequisite: Bacteriology 622 and 650. Veterinary Building. *Mr. Kleckner* and *Staff.*

A detailed study of the animal pathogens and their relationship to diseases.

860. PHYSIOLOGY OF BACTERIA. Five double periods. Prerequisites: Bacteriology 350, 409; Chemistry 451, or equivalent. Baldwin Hall. *Mr. Eagon* and *Mr. Payne.*

Survey of the physiology and metabolism of microorganisms.

900. PROBLEMS IN BACTERIOLOGY. Maximum credit of 50 hours, with no more than 10 hours applying to any one degree. Must be preceded by adequate preparation in bacteriology. *The Staff.*

This course allows students to pursue intensive study under the direction of staff members, on approved problems in medical, agricultural, marine, and general microbiology.

BIOLOGICAL SCIENCES

Bacteriology—See page 151
Botany—see below
Entomology—see page 166.
Zoology—see page 208.

BOTANY*

(Baldwin Hall, North Campus)

Head: Westfall. Staff: Beck, Browne, Carlton, Duncan, James, Michel, Plummer

110. PLANT BIOLOGY AND MAN. No credit will be allowed for Botany 110 if credit is shown for Botany 121. Five one-hour periods.

Basic studies of life, employing a variety of plant materials and emphasizing the relationship of structures and processes to the welfare of man.

111. PLANT BIOLOGY AND MAN (continued). No credit will be allowed for Botany 111 if credit is shown for Botany 122. Five one-hour periods.

A study of the reproduction, heredity, evolution, and environmental relationships of representative groups of plants, emphasizing economic and cultural applications.

121. ELEMENTARY BOTANY. Not open to students who have credit for Botany 110. Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton* and *the Staff.*

A study of (a) the structure of leaves, stems, and roots; (b) growth and nutritive processes of plants; and (c) the relations of plants to their environment.

*Students may be held responsible for breakage in laboratory courses.

122. Elementary Botany (continued). Not open to students who have credit for Botany 111. Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton* and *the Staff.*

A study of reproduction, variation, heredity and evolution of seed plants, with studies of representatives of other major plant groups and their importance.

305. Identification of Flowering Plants. Five double laboratory periods, outdoors on field trips when possible. Attendance on scheduled all-day or longer trips to mountains, coastal islands, etc. may be substituted for an appropriate number of regular sessions. Prerequisites: None, except that the course is not open to freshmen without the consent of the instructor. *Mr. Duncan* and *Mr. James.*

Studies in the identification of plants with emphasis on wild flowers.

306. Identification of Trees and Shrubs. Three two-hour periods each week plus three full-day trips as scheduled. Given winter quarter. Prerequisites: None, except freshmen should have permission of instructor. *Mr. James.*

Studies in the identification of trees and shrubs with emphasis on identification in winter condition.

323. Elementary Plant Anatomy. Five two-hour laboratory periods. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Carlton.*

The origin and development of the organs and tissue systems of vascular plants, and a comparative study of the structure of roots, stems, leaves, flowers, and fruits.

358. Methods of Plant Histology. Five double laboratory periods. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Carlton.*

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

375. Plant Ecology. Three one-hour lecture-discussion periods, two double periods of field trips or laboratory per week, and/or occasional week-end field trips. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Plummer.*

Plant geography, community analysis, symbiosis, species populations, limiting factors, cycles, rhythms, and applied implications. Fall quarter: synecology; Spring quarter: autecology; Summer: field trips.

380. Plant Physiology. Three one hour lectures and two double laboratory periods. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Beck.*

A survey of physiological processes occurring in economic plants and the conditions which effect these processes.

471. Taxonomy of Seed Plants. Five double laboratory periods. Prerequisites: Botany 305 or equivalent and any other senior division course in botany or approved course in plant pathology, forestry, or geography. *Mr. Duncan.*

A study of identification and classification of seed plants with emphasis on the flora of the southeastern states.

473. Identification of Grasses. Five double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and two senior division courses in botany or approved courses in other plant sciences. *Mr. Duncan.*

Studies in the identification and classification of grasses with emphasis on structure and ecology. Numerous economically important species are included.

475. Bryophytes. Three one-hour lectures and two double laboratory periods. Fall quarter of odd numbered years. Prerequisites: Any two senior division courses in botany or plant pathology. *Mr. Duncan.*

Studies in the morphology and taxonomy of Bryophytes. The laboratory will be devoted partly to study of Bryophytes in the field.

476. Vegetation of North America. Six hours library-laboratory, three hours seminar per week and a week-end field trip. Spring quarter. Prerequisites: Fifteen hours credit in Botany, Geology and Geography or Agriculture. *Mr. Plummer.*

Theories of plant geography, climax formations, and the causes of contemporary vegetation. Include floristics, indicator plants and problems in land utilization. Emphasizes eastern North America.

478. PTERIDOPHYTES. Four one-hour lecture, discussion, or demonstration periods and one two-hour laboratory period. Fall quarter of even numbered years. Prerequisites: Any two senior division courses in botany or plant pathology. *Mr. Duncan.*

Studies in the identification, classification, and morphology of the Pteridophytes.

482. NUTRITION OF GREEN PLANTS. Two lectures and three double laboratory periods. Botany 323 and 380. *Mr. Beck* and *Mr. Michel.*

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

483. ADVANCED PLANT PHYSIOLOGY. Five double laboratory periods. Prerequisites: Botany 380 and any other senior division course in botany, chemistry, or plant pathology. *Mr. Beck* and *Mr. Michel.*

An evaluation of accepted concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

520. FIELD AND LABORATORY BOTANY. Two lectures and three double laboratory periods and special field trips. Prerequisites: Botany 121-122 or equivalent and two senior division courses in botany or education. *Mr. Westfall.*

A course in field botany designed especially for teachers. Particular emphasis is placed upon the identification of local flowering plants and ferns, and upon the selection and use of materials for correlating the study of plants with other subjects.

522. ADVANCED FIELD AND LABORATORY BOTANY. Two lectures and three double laboratory periods and special field trips. Prerequisite: Botany 520. *Mr. Westfall.*

A second course primarily for teachers, emphasizing plant identification, environmental relationships, and plant distribution.

802 and 804. PROBLEMS IN BOTANY. 5 hours for each course. Under this heading work may be pursued under the direction of staff members in plant anatomy, plant ecology, plant morphology, plant physiology, plant taxonomy, or mycology. Prerequisites: two senior division courses in botany or approved courses in agriculture, geography, or forestry. *The Staff.*

831. MORPHOLOGY OF SEED PLANTS. Five double laboratory periods. Prerequisites: Botany 323 and one other senior division course in botany or plant pathology. *Mr. Westfall.*

Critical studies of representative seed plants, considering their development and relationships.

840. CYTOLOGY. Two lecture and three double laboratory periods. Prerequisites: Biology 401 or equivalent, and one other approved senior division course. Credited toward a major in botany or zoology. *Mr. Westfall.*

The study of cells, their cytoplasm and nuclei, metabolism, growth, differentiation, and reproduction.

842. CYTOGENETICS. Two lecture and three double laboratory periods. Prerequisites: Botany 840. Credited toward a major in botany or zoology. *Mr. Westfall.*

A course dealing with the correlation of genetic data and cystological structures and processes, emphasizing the mechanisms of normal chromosome distribution, chromosomal aberrations, and their relationship to the development of species.

860. AQUATIC PLANTS. Three one-hour lectures and two double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and any two courses numbered above 300 in botany, entomology, or zoology which provide taxonomic training. *Mr. Duncan.*

A study of the taxonomy, distribution, and ecology of aquatic plants, with emphasis upon fresh-water forms and habitats. Laboratory will be devoted mostly to study of aquatic plants in the field.

872. ADVANCED TAXONOMY OF SEED PLANTS. Two lectures and three double laboratory periods. Prerequisite: Botany 471 or equivalent.

A study of the taxonomy of special groups, concepts and systems of classification, and problems of nomenclature.

CHEMISTRY*

(Chemistry Building, South Campus.)

Head: Scott. Staff: Agerton, Brockman, Clark, Coggin, Cormier, Dargan, Firsching, Heric, Jacobs, Lamb, McRorie, Philbrook, Waggoner, Whitehead, Wilder.

INORGANIC CHEMISTRY

121, 122. General Chemistry. Four lectures or recitations and one laboratory period per week each quarter. *The Staff* and *Assistants.*

The first course covers the chemistry of the non-metallic elements, including a systematic treatment of chemical principles and their applications. The second course is a continuation of the first, including a general survey of the metallic elements.

370, 371. Industrial Chemistry. Five lectures per week each quarter. Prerequisites: 370—Chemistry 122 and one other chemistry course with laboratory; 371—Chemistry 260 or equivalent. *Mr. Brockman.*

370 covers important chemical processes and recent developments in various inorganic chemical industries. 371 deals with the important chemical processes and recent developments in various organic chemical industries.

420, 421, 424. Advanced Inorganic Chemistry. Five lectures or recitations per week each quarter. Prerequisites: 420—Chemistry 122 and two other chemistry courses with laboratory; 421, 424—Chemistry 223 and one other chemistry course with laboratory. *Mr. Brockman, Mr. Waggoner,* or *Mr. Whitehead.*

These courses comprise a comprehensive treatment of atomic structure, molecular structure and theories of valence; the second course emphasizes the periodicity of the chemical properties of the elements; the third course deals with the winning of the metals from their ores.

522. Advanced Inorganic Preparation. One lecture and four laboratory periods. Prerequisites: Chemistry 122 and two other chemistry courses with laboratory. *Mr. Brockman.*

Selected syntheses of inorganic compounds.

525. Chemistry for Teachers. Four lectures or recitations and one laboratory period per week each quarter. Prerequisites: Ten hours of chemistry and twenty hours of physical sciences. *Mr. Brockman* and *Mr. Whitehead.*

Lectures, recitations and laboratory work over a wide field of modern chemistry to prepare for teaching general science and high school chemistry. Limited to candidates for the Master of Education or B.S. in Education.

821. Advanced Inogranic Chemistry. 3 to 21 hours.

821.1. (Present 826h), 3 hours. The Non-Metallic Elements. Prerequisites: Chemistry, four courses with laboratory. *Mr. Waggoner.*

821.2. (Present 827h), 3 hrs. The Less Familiar Elements. Prerequisites: Chemistry, four courses with laboratory. *Mr. Waggoner.*

821.3 (Present 828h), 3 hrs. Srructural Inorganic and Stereochemistry. Prerequisites: Chemistry, four courses with laboratory. *Mr. Waggoner.*

825. Special Topics in Inorganic Chemistry. 3 to 21 hours.

825.1. Nonaqueous Solvents. 3 hrs. Prerequisites: Two of Chemistry 821.1, 821.2, or 821.3. *Mr. Waggoner.*

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*Students will be held responsible for breakage in laboratory courses.

ANALYTICAL CHEMISTRY

223. QUALITATIVE INORGANIC ANALYSIS. Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 122. *Mr. Firsching, Mr. Jacobs, Mr. Whitehead,* and *Assistants.*

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

380. QUANTITATIVE INORGANIC CHEMISTRY. Two lectures and three laboratory periods. Prerequisite: Chemistry 223. *Mr. Firsching, Mr. Jacobs, Mr. Whitehead,* and *Assistants.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

480. ADVANCED QUANTITATIVE ANALYSIS. One or two lectures and four or three laboratory periods. Prerequisite: Chemistry 380. *Mr. Firsching, Mr. Whitehead,* and *Assistants.*

Advanced work in inorganic quantitative analysis: potentiometric methods; organic reagents, electrolytic methods and systematic analyses.

481. COMMERCIAL ANALYSIS. One or two lectures and four or three laboratory periods respectively. Prerequisites: Chemistry 380 and 260 or 340a. *Mr. Firsching, Mr. Whitehead,* and *Assistant.*

Qualitative and quantitative analysis of water, alcohols, sugars, nitrogen compounds, saponifiable oils and hydrocarbon products, using standard commercial methods. The theoretical basis of each method is given.

580. INSTRUMENTAL METHODS OF ANALYSIS. Two lecture and three laboratory periods. Prerequisites: Chemistry 340b and 380. *Mr. Jacobs.*

These courses cover the use of special instruments for analysis. These include refractometers, electrophotometers, spectraphotometers, polarograph, and electrical instruments.

881. ADVANCED ANALYTICAL CHEMISTRY. 3 to 21 hrs.

881.1. INSTRUMENTAL ANALYSIS-OPTICAL. 3 hrs. Prerequisites: Chemistry 490c. *Mr. Jacobs.*

881.2. INSTRUMENTAL ANALYSIS-ELECTRICAL. 3 hrs. Prerequisite: Chemistry 490c. *Mr. Jacobs.*

882. PROBLEMS IN ANALYTICAL CHEMISTRY. One conference and four laboratory periods. Prerequisite: Chemistry 480 or 481. *Mr. Whitehead.*

Intensive study of problems in a special field such as textiles, dyes and pigments, metallic alloys, etc.; the theoretical and practical means of solving such problems.

885.2. ION EXCHANGE AND CHROMATOGRAPHY. 3 hrs. Prerequisites: Chemistry 881.1 and 881.2. *Mr. Jacobs.*

885. SPECIAL TOPICS IN ANALYTICAL CHEMISTRY. 3 to 21 hrs.

885.1. ANALYTICAL USES OF RADIOISOTOPES. 3 hrs. Prerequisites: Chemistry 480 and Physics 672. *Mr. Firsching.*

AGRICULTURAL AND BIOCHEMISTRY

260. AGRICULTURAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 122, or with consent of Head of Department. *Mr. Coggin, Mr. Philbrook, Mr. Wilder,* and *Assistants.*

A brief terminal introduction to aliphatic organic chemistry with material of especial interest to students of Agriculture, Home Economics and Forestry.

351. A TERMINAL COURSE IN GENERAL BIOCHEMISTRY. Four lectures and one two-hour laboratory. Prerequisites: Chemistry 340a,b. *Mr. Cormier.*

A brief survey of the chemical nature of cellular constituents and their metabolic interrelationships.

451. PHYSIOLOGICAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisites: 451—Chemistry 260 and a course in Botany or Biology or Zoology or Animal Husbandry or Poultry Husbandry. *Mr. Coggin, Mr. Cormier,* and *Mr. McRorie.*

Fundamental principles of physiological chemistry in the animal body, including the chemistry of foods, digestion, metabolism and excretions.

852. PHYSIOLOGICAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 451. *Mr. Coggin, Mr. Cormier,* or *Mr. McRorie.*

The metabolism of carbohydrates, lipids and proteins.

855.1. PHYTOCHEMISTRY. 3 hours. Three lectures. Prerequisites: Chemistry 451, and one course in botany. *Mr. Cormier* or *Mr. McRorie.*

A study of the compounds and chemical principles encountered in plants.

ORGANIC CHEMISTRY

340 a-b. ORGANIC CHEMISTRY. 10 hours. Three or four lectures or recitations and one or two laboratory periods each quarter. Prerequisite: A grade of 70 or better in Chemistry 121, 122. *Mr. Clark, Mr. Coggin, Mr. Lamb, Mr. Philbrook, Mr. Scott,* and *Assistants.*

Chemistry 340a. The aliphatic hydrocarbons and their derivatives.
Chemistry 340b. A continuation of 340a and a treatment of the coal tar compounds.

342. ADVANCED ORGANIC PREPARATIONS. Two consultations and three laboratory periods. Prerequisite: A grade of 80 or better in Chemistry 340 a-b or permission of the instructor. *Mr. Scott* and *Mr. Philbrook.*

Selected syntheses, such as Grignard, Friedel and Craft; acetoactic ester and others; also oxidations, reductions, and condensations.

441. ORGANIC QUALITATIVE ANALYSIS. One consultation and four laboratory periods. Prerequisite: Chemistry 340 a-b. *Mr. Clark, Mr. Lamb, Mr. Scott,* and *Mr. Philbrook.*

Identification of pure organic compounds and of mixtures.

445h. ADVANCED ORGANIC CHEMISTRY. 3 hours each quarter. Three lectures or recitations. Prerequisite: Chemistry 340b. *Mr. Philbrook.*

An advanced treatment of organic chemistry with special emphasis on structure and the mechanics of reactions.

540. ORGANIC CHEMISTRY FOR TEACHERS. Four lectures and one laboratory. Prerequisites: 10 hours of Chemistry and 20 hours of physical and (or) biological sciences. *Mr. Philbrook* or *Mr. Scott.*

831. ADVANCED ORGANIC CHEMISTRY. 3 to 21 hrs.

831.1. MODERN ORGANIC THEORY. 3 hrs. Prerequisite: Chemistry 342 or equivalent. *Mr. Clark, Mr. Lamb,* or *Mr. Philbrook.*

831.2. MODERN ORGANIC THEORY. 3 hrs. Prerequisite: Chemistry 831.1. *Mr. Clark, Mr. Lamb,* or *Mr. Philbrook.*

835. SPECIAL TOPICS IN ORGANIC CHEMISTRY. 3 to 30 hrs.

835.1. STEREOCHEMISTRY. 3 hrs. Prerequisite: Chemistry 342. *Mr. Philbrook.*

835.2. ORGANO-METALLIC COMPOUNDS. 3 hrs. Prerequisite: Chemistry 342. *Mr. Philbrook.*

835.3. HETEROCYCLIC COMPOUNDS. 3 hrs. Prerequisite: Chemistry 342. *Mr. Clark.*

835.4. ORGANIC COMPOUNDS OF NITROGEN. 3 hrs. Prerequisite: Chemistry 342. *Mr. Scott.*

835.5. PHYSICAL METHODS. One lecture and two laboratory periods. 3 hrs. Prerequisite: Chemistry 831.2. *Mr. Lamb* or *Mr. Philbrook.*

835.6. KINETICS. 3 hrs. Prerequisites: Chemistry 690c and 831.2. *Mr. Lamb.*

835.7. ORGANIC IONIC MECHANISMS. 3 hrs. Prerequisites: Chemistry 835.6. *Mr. Lamb.*

835.8. ORGANIC FREE RADICALS MECHANISMS. 3 hrs. Prerequisites: Chemistry 835.6. *Mr. Lamb.*

835.9. POLYMER CHEMISTRY. 3 hrs. Prerequisite: Chemistry 835.6. *Mr. Firsching* or *Mr. Lamb.*

840. ADVANCED ORGANIC PREPARATIONS. One consultation and four laboratory periods. Prerequisite: A grade of 80 or better in Chemistry 340 a-b and 342 or equivalent. *Mr. Clark, Mr. Lamb, Mr. Scott,* and *Mr. Philbrook.*

Selected syntheses, such as Grignard, Friedel and Craft; acetoacetic ester and others; also oxidations, reductions, and condensations.

842. ORGANIC QUANTITATIVE ANALYSIS. One consultation and four laboratory periods. Prerequisites: Chemistry 441 and 380. *Mr. Clark, Mr. Lamb,* or *Mr. Philbrook.*

Quantitative analysis of organic compounds for carbon, hydrogen, oxygen, and nitrogen by combustion; the determination of halogens and sulfur by the bomb method. Both macro and micro methods are available.

PHYSICAL CHEMISTRY

390. ELEMENTS OF PHYSICAL CHEMISTRY. Five lectures or recitations. Prerequisites: Chemistry 223, 340a and Physics 120. *Mr. Heric* and *Mr. Whitehead.*

A brief introduction to physical chemistry, designed primarily for pre-medical students.

400. COLLOID CHEMISTRY. Three lectures and two laboratory periods. Prerequisites: Chemistry 390 and 340a and Physics 120. *Mr. Whitehead.*

Fundamental theories of colloid chemistry with typical laboratory experiments.

490 a-b-c. PHYSICAL CHEMISTRY. 15 hours. Three or four lectures or recitations and one or two laboratory periods. Prerequisites: Chemistry 380, 340a, and Mathematics 355. *Mr. Heric.*

A three quarter course in the fundamental principles of physical chemistry and typical laboratory experiments.

891. CHEMICAL THERMODYNAMICS. 3 hours. Three lectures.

891.1 CHEMICAL THERMODYNAMICS. 3 hours. Prerequisites: Chemistry 490c. *Mr. Heric.*

891.2. CHEMICAL THERMODYNAMICS. 3 hours. Prerequisite: 891.1. *Mr. Heric.*

895. SPECIAL TOPICS IN PHYSICAL CHEMISTRY. 3 to 21 hours.

895.1. QUANTUM CHEMISTRY. 3 hours. Prerequisite: Chemistry 490c. *Mr. Heric.*

895.2. STATISTICAL THERMODYNAMICS. 3 hours. Prerequisites: Chemistry 891.2 and 895.1. *Mr. Heric.*

RESEARCH AND THESIS

349. INTRODUCTION TO RESEARCH. (Field to be inserted). One lecture and four library or laboratory periods. Prerequisites: 441 or 480 or 481 or 490c or 522. *The Graduate Staff.*

An introduction to the literature of chemistry, research procedures, and directions which can be found only in original articles.

811. CHEMICAL SEMINAR. 1-18 hours. *The Staff.*

849. INTRODUCTION TO RESEARCH. (Field to be inserted). One lecture and four library or laboratory periods. Prerequisites: 441 or 480 or 481 or 490c or 522. *The Graduate Staff.*

An introduction to the literature of chemistry, research procedures, and directions which can be found only in original articles.

900. LABORATORY RESEARCH IN CHEMISTRY. (Field to be inserted). 5 to 50 hours. Prerequisite: Chemistry 349 or 849. *The Graduate Staff.*

901. PROBLEMS IN CHEMISTRY. 1-15 hours. Prerequisites: 50 hours in Chemistry. *The Graduate Staff.*

930. THESIS IN CHEMISTRY. 5 to 50 hours. *The Graduate Staff.*

CLASSICS

(Robert E. Park Hall, North Campus)
Head: Alexander. Staff: Scudder.

CLASSICAL CULTURE

All courses in this section are given in English translation.

301. CLASSICAL CULTURE: GREECE. *Mr. Alexander.*

A study of the characteristics of Greek culture, made principally through translations of selections from Greek authors.

302. CLASSICAL CULTURE: ROME. *Mr. Alexander.*

A study of the characteristics of Latin culture, made principally through translations of selections from Latin authors.

310. ENGLISH DERIVATIVES FROM GREEK AND LATIN. *Mrs. Scudder.*

General etymology and vocabulary of the English language. Prefixes, suffixes, and root words, as well as families of words will be studied.

356. HOMER AND THE EPIC TRADITION. *Mr. Alexander.* (Offered in alternate years.)

A detailed study of Homer and his influence in later European literature.

357. CLASSICAL DRAMA. *Mr. Alexander.* (Offered in alternate years).

Selected plays of Aeschylus, Sophocles, and Euripides, studied through their influence on later European literatures.

801. GREEK CIVILIZATION. Prerequisite: ten hours of approved advanced courses in classics, modern languages, or literature; no knowledge of Greek required. *Mr. Alexander.*

A survey of Greek civilization studied through literature in translation. Research problems in special subjects.

GREEK

Freshmen may elect the three introductory courses in Greek.

201-202. ELEMENTARY GREEK. *Mr. Alexander.*

A double course meeting for two quarters in the elements of the Greek language; study of Greek history, geography, and social customs.

203. READING IN GREEK. Prerequisites: Greek 201 and 202. *Mr. Alexander.*

Selected readings from Greek authors.

304. HOMER. Prerequisites: Greek 201, 202, and 203 or equivalent. *Mr. Alexander.*

Detailed study of selections from the Iliad or the Odyssey.

500. HONORS COURSE.

LATIN

Freshmen may elect the three introductory courses in Latin. Students continuing Latin begun in high school will be placed in the appropraite course on the basis of personal consultations with instructor.

201-202. ELEMENTARY LATIN. *Mrs. Scudder.*

A double course meeting for two quarters in the elements of the Latin language.

203. INTERMEDIATE LATIN. Prerequisites: Latin 201 and 202 or two high school units in Latin. *Mrs. Scudder.*

Selected readings from Cicero's orations; review of forms and syntax.

304. READING IN LATIN. Prerequisite: Latin 203 or equivalent. *Mrs. Scudder.*

Selected readings from Virgil and Ovid.

305. LIVY. Prerequisite: Latin 304 or equivalent. *Mrs. Scudder.*

Selected readings from the Histories of Livy.

306. HORACE. Prerequisite: Latin 304 or equivalent. *Mrs. Scudder.*

Selected readings from the Odes of Horace.

500. HONORS COURSE.

550. LATIN FOR TEACHERS. A review course designed especially for high school teachers. Prerequisites: at least ten quarter-hours of Latin with a total of twenty quarter-hours of a foreign language and permission of the instructor. *The Staff.* (Offered in Summer School only.)

DRAMA

(See Speech and Drama)

ECONOMICS

(Commerce-Journalism Building, North Campus)

105. PRINCIPLES OF ECONOMICS. *The Staff.*

Description and analysis of the economic organization of modern society with a brief introduction to the theory of value and distribution.

This course is required of all students in the College of Business Administration and A.B. majors in Economics. It is elective as a social science for all other students and may be taken without Economics 106.

106. PROBLEMS OF ECONOMICS. Prerequisite: Economics 105. *The Staff.*

Economic problems based upon the principles studied in Economics 105.

This course is required of all students in the College of Business Administration and A.B. majors in Economics.

These two courses 105 and 106) are prerequisite to all advanced courses in economics and business administration, except by special permission of the instructor.

133. ECONOMIC DEVELOPMENT OF THE UNITED STATES. *Mr. Smith* and *the Staff.*

American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

312. ELEMENTARY ECONOMIC STATISTICS. *Mr. Sebba* and *the Staff.*

Introduction to the presentation and analysis of quantitative economic data; statistical sources; table reading; chart making; introduction to index numbers and time series analysis.

326. MONEY AND BANKING. *The Staff.*

Money in the economic organization; monetary theory; methods of stabilizing the price level; theories of bank deposits; discount policy and the interest rate of central banks; regulation of credit.

330. BUSINESS FINANCE. *The Staff.*

Financial promotion and organization of business firms; problems of financial administration; failures; financial rehabilitation.

334. PERSONAL FINANCE. *The Staff.*

Principles and practices involved in buying on credit; borrowing money, saving money, buying securities, insurance, annuities, real estate; problems of taxation and wills.

358. (GEOGRAPHY) ECONOMIC GEOGRAPHY. *Mr. Prunty.*

Relation of geographic factors to economic conditions in determining the nature and location of the several productive occupants; distribution of the output.

360. PRINCIPLES OF MARKETING. *Mr. Troelston* and *the Staff.*

Principles and methods involved in the movement of goods and services from producers to consumers.

380. (SOCIOLOGY) INDUSTRIAL SOCIOLOGY. Prerequisite: Economics 105 or Sociology 105. *Mr. Bowers* and *Mr. Payne.*

Human relations in the industrial setting; the relationship of growing, operating, or declining industrialization to the community and the larger society.

386. LABOR ECONOMICS. *The Staff.*

Survey of labor organization, wages, hours, unemployment, labor legislation, and current developments in labor.

400. (ANTHROPOLOGY) EARLY ECONOMIC SYSTEMS. Prerequisites: Anthropology 102 and Economics 105. *Mr. Kelly.*

Economic life of primitive peoples; concepts and principles of classical economics, developed in Western Civilization, are studied in the light of practices and thought among primitive groups in Asia, Africa, and the South Pacific.

406. ADVANCED ECONOMIC THEORY. *Mr. Beadles.*

Application of theoretical tools to value, distribution, money, business fluctuations, and the relationships between government and business.

409. (SOCIOLOGY) SOCIAL CHANGE. Prerequisite: Economics 105 or Sociology 105. *Mr. Bowers.*

Nature and theories of social change; causes and types of social change; cultural lag theory; social effects of inventions; adjustments of contemporary social institutions to technological change; impact of future technology on society.

421. PUNCHED-CARD STATISTICS. Prerequisites: Business Administration 315 and an introductory course in statistics. *The Staff.*

Use of punch-card machines in the treatment of numerical data; preparation of statistical surveys in a form suitable for machine use in the processing of the data; use of tables in the form of pre-punched cards.

431. INVESTMENTS. Prerequisite: Economics 326. *Mr. Dince.*

Elements of an "ideal" investment; examination and testing of specific investment securities.

432. FUNDAMENTALS OF INVESTMENT BANKING. Prerequisite: Economics 326. *Mr. Dince.*

Study of the economic and financial factors for appraising securities.

433. (SOCIOLOGY) POPULATION THEORY AND PROBLEMS. Prerequisite: Economics 105 or Sociology 105. *Mr. Belcher.*

Theory and dynamics of population growth; population pressure; migration; composition differential fertility; theories of the quality and optimum population; economic and social aspects of our population.

434. (POLITICAL SCIENCE) PUBLIC FINANCE. *Mr. Ellis.*

A general consideration of American public expenditures, revenues, and fiscal administration.

435. (POLITICAL SCIENCE) STATE AND LOCAL PUBLIC FINANCE. Prerequisite: Economics 434. *The Staff.*

Revenues, expenditures, and fiscal administration of Georgia and its political subdivisions; fiscal comparison of Georgia with other states; and an analysis of intergovernmental tax relationships.

437. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Wood.*

Analysis and appraisal of the theories underlying economic systems; proposed and existing schemes with respect to the maintenance of full employment, distribution of income, and encouragement of progress.

438. BUSINESS CYCLES. 3 hours. Prerequisite: Economics 312. *Mr. Sebba.*

Economic and social significance of business fluctuations; causes of business cycles; measures for controlling cycles.

439. BUSINESS FORECASTING. 3 hours. Prerequisite: Economics 438. *Mr. Sebba.*

Possibilities of busines forecasting; methods and theories of forecasting.

440. CORPORATE FINANCIAL POLICY. 3 hours. Prerequisite: Economics 330. *Mr. Dince* and *the Staff.*

Analysis of financial problems and policies of corporations.

441. (POLITICAL SCIENCE) PRINCIPLES OF PUBLIC ADMINISTRATION. *Mr. Hughes.*

General principles and problems of administrative organization, relationships and controls in the United States; personnel; financial administrative law; the growth and significance of administrative legislation and adjudication; influence of political and social beliefs, legislatures and pressure groups.

442. (POLITICAL SCIENCE) PUBLIC PERSONNEL ADMINISTRATION. *Mr. Hughes.*

Procedures, policies, and problems of governmental personnel administration; field trips and field studies of governmental agencies give the student firsthand knowledge of governmental personnel administration.

443. (POLITICAL SCIENCE) PUBLIC FINANCE ADMINISTRATION. Mr. *Hughes.*

Activities involved in the collection, custody, and expenditure of public revenue; the assessment and collection of taxes; public borrowing and debt administration; preparation and enactment of the budget; financial accountability and the audit.

444. (POLITICAL SCIENCE) GOVERNMENT AND BUSINESS. *Mr. Smith.*

Economic aspects of business regulation by the government; regulatory developments and methods in the United States; loans and soubsidies; fact-finding agencies; government-owned corporations.

450. MONETARY POLICY. Prerequisite: Economics 326. *Mr. Davids.*

Advanced treatment of problems introduced in Economics 326.

455. CONTEMPORARY ECONOMIC PROBLEMS. *Mr. Wood.*

Application of economic theory to certain problems of contemporary economic life such as monopoly, business cycles,, tariffs, inflationary influences, industrial conflict, etc.

465. MARKETING RESEARCH AND ANALYSIS. Prerequisite: Economics 360. *Mr. Troelston.*

Scientific method in the construction of general marketing research studies; the solution of specific distribution problems; qualitative market analyses; market trends; data collection, tabulation, and interpretation.

466. ECONOMICS OF CONSUMPTION. *Mr. Troelston.*

Economics of the consumer market; the process of consumption; position and responsibilities of the consumer; desirable controls of consumption.

475. ECONOMICS OF TRANSPORTATION. *Mr. Smith.*

Study of the economic principles of transportation with special emphasis on the history and regulations of railroads.

Majors in Aeronautical Administration will be requised to complete additional assignments in air transportation.

480. INTERNATIONAL TRADE AND FINANCE. *Mr. Dince.*

Economic importance and problems of international trade; exchange rates and monetary standards; tariffs and other trade barriers; debts; the position of international trade in the post-war world.

487. THE COMMODITY EXCHANGE. Prerequisite: Economics 360. *Mr. Mr. Troelston.*

Development of the exchange; organizational and general operation; commodities commonly traded; hedging; values; governmental regulations and controls.

488. THE SECURITIES MARKET. *The Staff.*

Organizations and functions of the New York Stock Exchange; types of transactions; types of traders; brokerage houses; speculation; relation of business cycles to stock prices; forecasting.

489. THE LABOR MOVEMENT. Prerequisite: Economics 386. *Mr. Segrest.*

Historical background of modern industrial relations; economics, social, and political forces contributing to the current problems in labor economics.

490. LABOR LEGISLATION. Prerequisite: Economics 386. *Mr. Segrest.*

State and federal legislation in the field of industrial relations.

491. COLLECTIVE BARGAINING. Prerequisite: Economics 386. *Mr. Wood.*

Historical and legal framework of the bargaining process; structure of collective bargaining, including bargaining unit, participants, negotiations; basic issues and major problems; economic implications of collective bargaining.

492. (POLITICAL SCIENCE) AMERICAN ADMINISTRATIVE LAW. *Mr. Saye.*

Legal principles and practical doctrines involved in work of administrative tribunals (the Interstate Commerce Commission, Federal Trade Commission, etc.) vested with quasi-legislative or quasi-judicial powers or both.

494. EUROPEAN ECONOMIC HISTORY. *The Staff.*

Development of the economic aspects of civilization in medieval and modern times; evolution of economic institutions; historical background of present economic problems.

533. CREDITS AND COLLECTIONS. Prerequisite: Economics 330. *Mr. Wright.*

An analysis of the principles underlying the extension of credit to finance the transfer of goods and services.

577. PUBLIC UTILITIES. *Mr. Smith.*

Development characteristics, rights and duties of public utilities; problems of regulation and rates; service; securities; holding companies in the electric utilities; activities of the Federal government in the power field.

585. PERSONNEL ADMINISTRATION. Prerequisites: Psychology 101 and Economics 386. *The Staff.*

Principles and practices in the field of the administration of human relations in industry; scientific techniques and devices in the development of a well-rounded personnel program.

591. APPLIED ECONOMIC STATISTICS. Prerequisite: Economics 312 or Mathematics 356. *Mr. Sebba.*

Various statistical methods and techniques applied to economic fields such as marketing, advertising, labor management, production, banking, investments.

760. SEMINAR IN MARKETING AND SALES ADMINISTRATION. *Mr. Troelston.*

Sales and marketing problems with emphasis upon current developments in wholesale and retail agencies. Permission of the instructor required.

792. APPLIED BUSINESS RESEARCH. *Mr. Gill.*

Applications of business research results in the determination of policy and in the planning of operations of business enterprises.

807. THE HISTORY OF ECONOMIC THOUGHT. *Mr. Smith.*

The evolution of the important principles of economics with emphasis on the history of the theories of value and distribution. Permission of the instructor required.

844. SEMINAR IN GOVERNMENT AND BUSINESS. *Mr. Smith.*

Current issues in the field of governments' relation to business and particular emphasis on problems associated with monopoly and competition.

850. RESEARCH IN MONEY AND BANKING. *Mr. Dince.*

Individual research in money and banking. Permission of the instructor required.

886. PROBLEMS IN INDUSTRIAL RELATIONS. *Mr. Segrest.*

Current problems in industrial relations with particular emphasis on the current status of unionism in the United States in terms of the effects of union organization, policies, and methods upon employer-employee relations.

890. INDEX NUMBERS. *Mr. Sebba.*

Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

891. RESEARCH IN APPLIED ECONOMIC STATISTICS. *Mr. Sebba.*

Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

892. TIME SERIES ANALYSIS. *Mr. Sebba.*

Statistical time series analysis and its application to economic analysis.

893. ECONOMIC SEMINAR. *The Staff.*

A research problem in the field of major concentration under personal supervision of the major professor. Permission of the instructor required.

894. ECONOMICS SEMINAR. *The Staff.*

A continuation of Economics 893.

ENGLISH

(Robert E. Park Hall, North Campus)

Head: Everett. Staff: Appleby, Barnett, Beaumont, Biswanger, Blais, Brock, Brown, Cate, Davidson, Dumas, Eidson, Graham, Hammond, Hart, *Herron, Hutcherson, Jones, Lindemann, Longshore, Marshall, McCartney, McCullough, Martin, McWhorter, Michael, Mizelle, Moore, Montgomery, *Olney, Parks, Rushmore, Talmadge, Thurman, Tison, Wall, *Waller, Wallis, *West.

*On leave.

101, 102. COMPOSITION. 10 hours (5 hours a quarter). *The Staff.*

First quarter: grammar, punctuation, mechanics, diction, and sentences structure. Second quarter: readings from English and American literature. Themes and parallel reading required throughout the course. Conferences on themes. An average of C (73) is required in these courses.

121, 122. WESTERN WORLD LITERATURE. 10 hours (5 hours a quarter). Prerequisite: English 101, 102. *The Staff.*

A survey of Western World literature from Homer to the twentieth century.

303. ENGLISH LITERATURE TO 1800. *Mr. Wall.*

A general course in English literature designed to give any student a broad knowledge of the subject. English 303 and English 304 together offer a full survey of English literature, but either or both of these courses may be taken.

304. ENGLISH LITERATURE AFTER 1800. *Mr. Wall.*

Continuation of English 203.

305. LYRIC POETRY. *Mr. Davidson.*

A study of the types, techniques, and interpretations of poems selected from English and American literature.

310. ADVANCED GRAMMAR AND SYNTAX. This course is recommended to students interested in teaching or in writing. *Miss Dumas.*

343. MODERN DRAMA. *Mr. Olney.*

360. ADVANCED COMPOSITION. *Mr. Talmadge.*

Factual writing. Admission by consent of the instructor.

361. THE SHORT STORY. *Mr. Talmadge.*

A history of the short story as a literary form.

370. CREATIVE WRITING. Prerequisite: English 360. *Mr. Talmadge.*

Emphasis upon the short story and the personal essay. Admission by consent of the instructor.

375. THE NOVEL. *Mr. Parks.*

A study of the outstanding eighteenth and nineteenth century English and American novels.

380. THE MODERN NOVEL. *Mr. Rushmore.*

A study of the modern novel in England and America.

400. OLD ENGLISH. *Mr. Brown.*

A study of the language and literature of England before the Norman Conquest, with reading of selected texts.

402. CHAUCER. *Mr. Brown.*

A study of the *Canterbury Tales, Troilus and Criseyde,* and minor poems.

403. MILTON. *Mr. Davidson.*

A study of the work and times of John Milton.

404. THE AGE OF POPE. *Mr. Davidson.*

A study of the works of Pope, Defoe, Addison, Steele, and Swift.

405. THE AGE OF JOHNSON. *Miss Dumas.*

A study of the works of Samuel Johnson and his most important contemporaries.

406. THE ROMANTIC MOVEMENT. *Mr. Olney.*

A study of the major English poets of the early nineteenth century.

407. THE ENGLISH DRAMA TO 1641. *Mr. Tison.*

A study of the English drama (exclusive of Shakespeare) from the beginning to the closing of the theatres.

408. RESTORATION AND EIGHTEENTH CENTURY ENGLISH DRAMA. *Mr. Biswanger.*

The history of the English drama in the late seventeenth and the eighteenth centuries.

409. ELIZABETHAN POETRY. *Mr. West.*

A study of the Elizabethan non-dramatic poets from Spenser to Donne.

410. HISTORY OF THE ENGLISH LANGUAGE. *Mr. Brown.*

The development of English from its beginning to the present time.

420. AMERICAN LITERATURE TO 1865. *Mr. Eidson, Mr. Moore,* and *Mr. Parks.*

A survey of literary works and the main intellectual currents.

422. AMERICAN LITERATURE AFTER 1865. *Mr. Eidson, Mr. Moore,* and *Mr. Parks.*

425. ROMANTICISM IN AMERICAN LITERATURE. *Mr. Eidson, Mr. Moore,* and *Mr. Parks.* (Not offered 1960-61.)
A study of the works of Emerson, Whitman, and Hawthorne.

427 REALISM IN AMERICAN LITERATURE. *Mr. Eidson, Mr. Moore,* and *Mr. Parks.*
A study of the works of Mark Twain, Henry James, and William Dean Howells.

429. SOUTHERN LITERATURE. *Mr. Eidson, Mr. Moore,* and *Mr. Parks.*
A survey of the intellectual thought and literary achievement in the South from 1610 to the present time, with emphasis upon Poe, Timrod, and Lanier.

440. SHAKESPEARE. Part I. *Mr. Olney.*
Richard III; Julius Caesar; Antony and Cleopatra; A Midsummer Night's Dream; The Merchant of Venice; As You Like It; Romeo and Juliet; Hamlet.

441. SHAKESPEARE. Part II. *Mr. West.*
Henry IV (1); *Henry V; Coriolanus; Twelfth Night; The Tempest; Measure for Measure; The Winter's Tale; Othello; King Lear; Macbeth.*

442. EARLY VICTORIAN LITERATURE. *Mr. Everett.*
A study of the works of Carlyle, Tennyson, and Browning.

451. MUSIC AND LITERATURE. *Mr. Brown.*
A comparative study of the forms, relationships, and aesthetics of music and literature. Admission by consent of the instructor.

452. LATE VICTORIAN LITERATURE. *Mr. Everett.*
A study of the works of Arnold, Ruskin, and Swinburne.

801. BEOWULF. *Mr. Brown.*
A study of the text, with consideration of linguistics, the epic tradition, and Anglo-Saxon civilization.

803. MILTON. *Mr. West.*
A study of the major works of John Milton with particular attention to their intellectual background.

806. SEMINAR IN ENGLISH ROMANTIC LITERATURE. *Mr. Everett.*
A research course in special problems.

808. MIDDLE ENGLISH. *Mr. Brown.*
Language and literature of England from 1150 to 1400, with reading of selected texts representing the various periods and dialects.

820. SEMINAR IN AMERICAN LITERATURE. *Mr. Parks.*
A research course in special problems.

829. SEMINAR IN SOUTHERN LITERATURE. *Mr. Parks.*
A research course in special problems.

830. LITERARY CRITICISM. *Mr. Parks.*
A study of the theory and principles of literary criticism from Aristotle through T. S. Elliot.

840. SEMINAR IN ELIZABETHAN DRAMA. *Mr. West.*
A research course in special problems, with major emphasis on Shakespeare.

842. SEMINAR IN VICTORIAN LITERATURE. *Mr. Everett.*
A research course in special problems.

ENTOMOLOGY*

(Baldwin Hall, North Campus)

Head: Lund. Staff: Hunter, Johnson, Jordan, Paul, Robertson.

Students registered in the Franklin College of Arts and Sciences may, with the permission of the Head of the Department, credit the following zoology courses toward a major in Entomology: Zoology 353, Zoology 401, Zoology 390, and Zoology 454.

373. GENERAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Paul.*
A field and laboratory study of the structure, biology, and classification of insects and of their general importance and significance to man.

*Students may be held responsible for breakage in laboratory courses.

374. ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Paul.*

A course designed to provide the practical information essential for the recognition and control of the insect pests most commonly encountered in the field, orchard, garden, woodlot, and home.

375. FOREST ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*

A study of the biology, identification, and control of the species of insects destructive to American forests.

376. MEDICAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*

A study of the biology, identification, and control of the species of insects and related arthropods of particular importance in the cause or transmission of diseases of man and the lower animals.

474. ADVANCED ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisite: one of the following entomology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*

An advanced treatment of economic entomology including actual field work in experimental methods, biological control, and the insect transmission of plant diseases.

477. CHEMISTRY AND TOXICOLOGY OF INSECTICIDES AND FUNGICIDES. Three lectures and two double laboratory periods. Prerequisites: one course in organic chemistry and one of the following entomology courses: 373, 374, 375, or 376. *Mr. Paul.*

A study of the physical and chemical behavior of insecticides and accessary materials and of their toxicological effects upon plants and animals.

480. INTRODUCTORY ACAROLOGY. Three lectures and two double laboratory periods. Prerequisites: one of the following entomology courses: 373, 374, 375, 376. For graduate credit, one additional senior division course is required. *Mr. Hunter.*

The structure, classification, and biology of mites and the control of those forms known to be of importance to the health and welfare of man.

573. INSECTS IN FIELD AND STREAM. Two lectures and three double laboratory periods. Prerequisite: Two elementary courses in biological science and two courses numbered 300 or above in biological science or education. *Mr. Paul.*

A study of insects and related forms found on land and in water; their identification and life habits, and the control of noxious forms, with emphasis on the use of these forms in the teaching of high school biology.

805. INSECT PARASITES. Prerequisites: Entomology 373, 374, 375, or 376 and one additional senior division course. *Mr. Lund.*

An advanced study of the structure, life-histories, and identification of those insects and related arthropods which cause or transmit disease in man or lower animals.

871. TAXONOMY OF INSECT LARVAE. Two lectures and three double laboratory periods. Prerequisites: Any one of the following: Entomology 373, 374, 375, or 376 and one additional senior division course. *Mr. Lund.* Offered alternate years.

A study of the classification, biology, and phylogenetic and economic significance of insect larvae.

873. ADVANCED GENERAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Entomology 373 and one additional senior division course. *Mr. Lund.* (Offered alternate years. Not offered in 1960-61).

An advanced treatment of general entomology including biological nomenclature, insect evolution and classification, sensory physiology, and other special topics.

900. PROBLEMS IN ENTOMOLOGY. *The Staff.*

In this course students work intensively on problems in approved fields of entomology.

FINE ARTS

(Fine Arts Building, North Campus)

Given under the general direction of the chairman of the Division of Fine Arts.

300. MUSIC AND THE VISUAL ARTS. No credit will be allowed for Fine Arts 300 when credit is already shown for Art 317 and Music 343. *Mr. Dodd, Mr. Hodgson,* and *Staff.*

Nature and materials of the visual arts in their relation to man, with emphasis on the influence of art products in contemporary living and thinking. A field of study comprising painting, sculpture, architecture, graphic arts, arts of industry and commerce. Also a study of works of outstanding figures in music taken chronologically.

FRENCH

(See Modern Foreign Languages)

GEOGRAPHY AND GEOLOGY*

(Mathematics, Geography and Geology Building, South Campus)

Head: Prunty. Staff: Barnes, Langley, Lounsbury, Northam, Poole, Power, Salotti, Schlee, Shear.

HUMAN AND REGIONAL GEOGRAPHY

Note: A major selected primarily from the following courses leads to an A.B. degree.

101. WORLD HUMAN GEOGRAPHY. *Mr. Barnes, Mr. Langley,* and *the Staff.*

A survey of world human geography, emphasizing population characteristics, environmental features, distribution of economic activities and geopolitical problems within the major geographical regions. Consideration of adequacy of resources to support expanding world populations.

341. PROBLEMS IN POLITICAL GEOGRAPHY. Prerequisites: Geography 101 or History 111, 112. *Mr. Langley.*

A summary of geographical influences upon the nature and history of states and nations. Primary emphasis upon geopolitical conditioning of international affairs since World War I. Analysis of current strategic positions of U. S. and U.S.S.R.

358. ECONOMIC GEOGRAPHY. Four lectures and one laboratory. Prerequisite: Geography 101, History 111, Geology 125 or one course in Economics. *Mr. Prunty.*

Mineral fiber and forest raw materials production, sources and adequacy of supply for expanding American markets and population. Extraction and processing problems related to areas of raw material occurrence. Principal manufacturing industries based upon use of these raw materials; problems in industrial location. Primary emphasis on power resources and major U. S.-European manufacturing regions.

436. GEOGRAPHY OF THE SOUTH. Prerequisite: Ten hours in courses from one of the following departments: Geography and Geology, History or Economics. *Mr. Prunty.*

Geographical appraisal of the Southeastern States, including physical and human resources, settlement and population, agriculture, the extractive industries, transportation, and present urban settlements. Present human-use regions of the South. Current progress and major problems in Southeastern development; suggests geographical approaches to their solution.

441. CARIBBEAN AMERICA. Prerequisite: Ten hours in Geography and Geology, or an equivalent background in either Spanish or History. *Mr. Lounsbury* or *Mr. Northam.*

A regional analysis of the geography of Caribbean Area with emphasis upon the cultural and economic ties of the American South with the Caribbean area.

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*Students will be held responsible for breakage in laboratory courses.

442. SOUTH AMERICA. Prerequisite: Ten hours in Geography and Geology, or an equivalent background in either Spanish or History. *Mr. Lounsbury.*

A regional analysis of the geography of equatorial and southern South America including treatment of physical, cultural, and economic characteristics of the several regions within the South American nations. Stress upon prospects for expansion of settlements, developments of resources and growth of industries.

444. EUROPE AND THE MEDITERRANEAN. Prerequisite: Ten hours in Geography and Geology, or an equivalent background in History or Modern Languages. *Mr. Langley.*

A regional analysis of the human geography of peninsular, western, and central Europe, and the Mediterranean Basin, emphasizing physical, ethnographic, and economic factors affecting the resource utilization and political problems of the several nations.

446. GEOGRAPHY OF THE SOVIET UNION. Prerequisite: Ten hours in Geography and Geology, or an equivalent background in Modern Languages or History. *Mr. Langley.*

A regional analysis of the physical, ethnographic and economic geography of the U.S.S.R., designed to evaluate the industrial and political strength of the Soviet Union.

448. GEOGRAPHY OF SOUTHEAST ASIA. Prerequisite: Ten hours in Geography and Geology or an equivalent background in History. *Mr. Poole.*

Regional analysis of cultural and physical geography of Southeast Asia including the coastal island groups. Analysis of land utilization, settlement, raw material, population characteristics and distributions as they relate to economic and political problems and potentials of the several nations. Emphasis on Japan, China, India, Pakistan, Philippines, and Indonesia.

459. NORTH AMERICAN URBAN GEOGRAPHY. Prerequisite: Two courses from Geography 350, 358, or Economics 331. *Mr. Northam.*

Analysis of urban land occupance and its morphological-functional aspects. Introductory location theory in urban areas. Procedures in geographical analysis of agglomerated settlements. Emphasis on southern and eastern U. S. urban settlements.

460. NORTH AMERICAN INDUSTRIAL AND TRANSPORTATION GEOGRAPHY. Prerequisite: Ten hours from Geography 350, 358, 459, Economics 331. *Mr. Northam.*

Spatial organization of industry and transportation in regard to physical and cultural aspects of geography. Evaluation of location and relative development advantages of selected industries; their relation to transport factors in collection and distribution of fabricative materials. Elements of industrial location theory. Emphasis on southeastern industrial and transport activities.

461. NORTH AMERICAN AGRICULTURAL GEOGRAPHY. Prerequisite: Ten hours from Geography 350, 358, 459, 460; or ten hours in 300-level courses from Botany or Agronomy approved by instructor. *Mr. Prunty.*

Regional analysis of climate, soils, landform bases of American agriculture. Origins and dispersals of cultivated plants and livestock; American systems of rural land use and settlement in their regional settings. Contemporary problems in geographical analysis of American agriculture.

533. GEOGRAPHY OF THE COMMUNITY. Prerequisite: Ten hours from the following courses: Geography 310 or 358, Sociology 431 or 435. *Mr. Barnes.*

Analysis of structure and primary functional patterns of small and medium-sized American towns. Area differences in morphology of such settlements. Field techniques in assessment of community morphology constitute about half the course. This course intended primarily for professional teachers and school administrators. Offered summer quarter only.

801. SEMINAR IN GEOGRAPHIC THOUGHT AND METHODS. 3 hours. *Mr. Prunty* and *the Staff.*

Historical development of geographical philosophy and methods; contemporary methodological concepts and problems. Required for all graduate majors.

802. QUANTITATIVE METHODS IN AREA ANALYSIS. 3 hours. *Mr. Barnes* and *the Staff.*

Cartographic and other quantitative procedures in analysis of occupance, settlement, and physical land types. Procedures and contemporary problems. Required for all graduate majors.

803. SEMINAR IN NORTH AMERICAN LAND OCCUPANCE. 3 hours. *Mr. Lounsbury* and *Mr. Prunty.*

Continuation of 801-802, emphasizing problems in North American rural land occupence and settlement geography. Required for all graduate majors.

837. TOPICS IN THE GEOGRAPHY OF THE SOUTH. 3 hours. *Mr. Prunty.*

Selected topics in the geography of the American South, with emphasis upon land occupation types, landforms, and raw materials production. Topics and areas of detailed study may vary.

845. TOPICS IN THE GEOGRAPHY OF EUROPE. 3 hours. *Mr. Langley.*

Selected problems in the physical and cultural geography of Europe. Topics and areas of study may vary.

PHYSICAL GEOGRAPHY

A major selected primarily from the following courses may lead to either the A.B. or B.S. degree.

104. EARTH SCIENCE SURVEY. *Mr. Northam* and *Mr. Poole.*

A survey of the fundamental concepts and contributions selected from the fields of physical geography (physiography, climatology).

121. THE NATURAL ENVIRONMENT (LANDFORMS). Three lecture and two laboratory periods. *Mr. Poole.*

A systematic analysis of major features of the natural environment and their interrelations, stressing landforms, common rocks, and water-resource characteristics. Distribution and characteristics of the major residual soils types. Interpretation of topographic maps and air photos depicting landforms.

122. THE NATURAL ENVIRONMENT (CLIMATE-VEGETATION). A continuation of Geography 121. Three lecture and two laboratory periods. *Mr. Shear.*

Evaluation of weather fundamentals, climate, vegetative, and soils phenomena, and their areal relationships within the physical environments as illustrated by world distribution.

310. CONSERVATION OF NATURAL RESOURCES. Prerequisite: Geography 101 or 121. *Mr. Northam.*

Resource problems and related conservation techniques in the United States. Particular emphasis placed upon resource conservation problems of the Southeastern States.

350. CARTOGRAPHY AND GRAPHICS. Five laboratory periods. *Mr. Barnes.*

Theory and practice in map and chart design and construction. Emphasis on compilation techniques, use of source data for map construction, application of aerial photos to mapping problems, graphic presentation of statistical materials. Includes practice in use of all basic cartographic instruments, construction of basic types of geographical, geological, and statistical maps. Intended for the student who has had no training in mapping procedures.

391. DIRECTED MAP AND PHOTOGRAMMETRIC COMPILATION. 3 hours. Three laboratory periods. Prerequisite: Geography 350 or 420. *Mr. Barnes.*

Directed problems in compilation processes for map reproduction. Problems in projection, fitting, air photo scale and distortion control, field and statistical compilation, reproduction specifications. Utilization of primary map, field survey and air photo sources in compilation cartography.

401. REGIONAL CLIMATOLOGY AND VEGETATION. Four lecture and one laboratory period. Prerequisite: Ten hours in Geography and Geology including Geography 122, or an equivalent background in Botany. *Mr. Shear.*

Analysis of world climatic and vegetative regions involving such deterministic factors as air mass characteristics, heat and moisture requirements of vegetative associations, the influences of topographic and edaphic conditions upon the relations of climates to natural and cultivated vegetation.

402. GEOMORPHOLOGY. Three lecture and two laboratory periods. Prerequisite: Ten hours in Geography and Geology, or an equivalent background. *Mr. Poole.*

Analysis of processes which have developed present relief of the earth's surface, study of physical landscapes which comprise the earth's outer layers. Evaluation of relief features found in the major physiographic regions of North America. Other physiographic regions, selected on a world-wide basis, examined as type-examples.

420. USE AND INTERPRETATION OF AERIAL PHOTOGRAPHS. Five laboratory periods. Prerequisites: Four or more quarters of forestry or agriculture, or Geography 350 and one other 300 level course, or permission of the instructor. *Mr. Barnes* or *Mr. Poole.*

Theory and procedures in use of aerial photos for mapping, planning, terrain and contour identification, forest and vegetation identification. Procedures in correction of photo errors, for preparation of base-maps. Training in use of standard photogrammetric instruments, and in planning of photo-reconnaisance of sample areas.

422. Advanced Photogrammetry Laboratory. Five laboratory periods. Prerequisite: Geography 420 or equivalent. *Mr. Barnes.*

Laboratory instruction on individualized photogrammetric problems related to the major interests of the students. Mastery of advanced photogrammetric instruments required.

425. Field Methods in Geography. 3 hours. (Not open to students who take Geology 425). Prerequisites: 15 hours in Geography and Geology courses numbered above 200 including Geography 350, plus at least a B average in junior-senior major courses. *Mr. Northam* and *Mr. Lounsbury.*

Methods in measurements, observation, recording, and synthesis of field data. Field analysis of all features in one small type-area required, including completed maps and written report in which recorded data are correlated and synthesized.

429. Special Problems in Area Analysis. 3 hours. Prerequisite: Fifteen hours in courses numbered above 300 in Geography and Geology. Approval of instructor concerned, and head of department, must be obtained for admission to this course *prior* to registration. *Mr. Prunty* and the Staff.

476. Vegetation in North America. (Botany 476). *Mr. Plummer.*

821. Advanced Problems in Cartography. Two lecture and three laboratory periods. Prerequisite: Geography 350 or 420, or equivalent background, plus other advanced course work in either Geography or Geology. *Mr. Barnes.*

Cartographic problems in projections, design, reproduction. Application of cartographic processes to regional analysis. Problems in photogrammetric control in cartographic compilation. Selected current research problems in cartography, and photogrammetry.

PHYSICAL AND HISTORICAL GEOLOGY

A major selected primarily from the following courses may lead to either the A.B. or B.S. degree.

125. Elements of Geology (Physical). Three lectures and two laboratory periods. *Mr. Power* and *the Staff.*

Fundamentals of physical geology, including origin and composition of the primary earth materials, agents of erosion, sedimentation, metamorphism, modes of occurrence of the common minerals, and analysis of the several common crustal structures.

126. Elements of Geology (Historical). A continuation of Geology 125. Three lectures and two laboratory periods. *Mr. Schlee* and *the Staff.*

Historical principles in geology, including floral, faunal, bio-geographic, and stratigraphic relationships of the several geologic epochs.

321. Mineralogy and Crystallography. Two lecture and three laboratory periods. Prerequisites: Geology 125, Chemistry 121-122 and Mathematics 110. *Mr. Power* or *Mr. Salotti.*

Physical and chemical properties of minerals, their rock-associations, modes of occurrence, industrial uses. Properties of crystals, crystal systems and geometrical characteristics, abnormalities in mineral-crystal structure.

323. Petrology. Two lecture and three laboratory periods. Prerequisite: Geology 321. *Mr. Power* or *Mr. Salotti.*

Origins of the sedimentary, igneous, and metamorphic rocks, modes of occurrence, chemical and physical changes to which rocks are subject. Systematic and descriptive analysis of rocks.

332. Structural Geology. 3 hours. Three laboratory periods. Prerequisite: Geology 125. *Mr. Salotti.*

Framework of the earth's crust, and causes of its distortion. Analysis of flexures, faults, joints. Origin of mountains, continents, and oceans. Laboratory studies of geological maps and the deduction of earth forces, resulting in present rock attitudes.

358. The Mineral Industries. (See Geography 358). *Mr. Prunty.*

402. Geomorphology. (See Geography 402). *Mr. Poole.*

403. INVERTEBRATE PALEONTOLOGY. Three lecture and two laboratory periods weekly. Prerequisite: Geology 126 and 332. (Not offered in 1960-61).

Study of fossil invertebrates, emphasizing relationships in anatomical structures of living and extinct types, analysis of the classifications, ecology, and geological history of all phyla of invertebrates. Laboratory problems emphasizing facility in stereomiscroscopic analysis.

405. SEDIMENTATION AND STRATIGRAPHY. Two lecture and three laboratory periods. Prerequisites: Geology 321 and 323. *Mr. Schlee.*

Formation processes in the origin and distribution of sedimentary rocks. Physical and environmental conditions involved in transportation and deposition of sediments. Vertical sequences of lateral correlations in layered rocks. Methods in identification and correlation of typical stratigraphic associations; and of organic and structural constituents.

407. GEOLOGY OF THE SOUTHERN STATES. Prerequisite: Geology 405. Three lecture and two laboratory periods. *Mr. Schlee.*

Structural and stratigraphic relationships in southern geology analyzed in terms of distribution, lithology, and their economic implications.

408. OPTICAL MINERALOGY. 3 hours. Three laboratory periods weekly. Prerequisites: Geology 321 and 323. *Mr. Power.*

Principles of optical crystallography. Identification of minerals and rock textures via the polarizing microscope.

410. SEDIMENTARY PETROLOGY. 3 hours. Three laboratory periods weekly. Prerequisites: Geology 405 and 408. *Mr. Schlee.*

Megascopic and microscopic petrologic examination of sedimentary rocks. Relationships of their properties to environments during deposition; post-depositional history of the rocks.

425. FIELD METHODS IN GEOLOGY. 3 hours. (Not open to students who take Geography 425). Prerequisites: Fifteen hours in Geography and Geology courses numbered above 200 including Geography 350, plus at least a B average in junior-senior major courses. *Mr. Salotti.*

Methods in measurements, observation, recording ,and synthesis of field data. Field analysis of all features in one small type-area required, including completed maps and written reports in which recorded data are correlated and synthesized.

GERMAN

(See Modern Foreign Languages)

GREEK

(See Classics)

HISTORY

(LeConte Hall, North Campus)

Head: Parks. Staff: Coleman, Jones, McPherson, Montgomery, Murdoch, C. J. Smith, J. D. Smith, Tresp, Vinson.

All students receiving a degree from the University of Georgia are required to pass an examination on the history of the United States and Georgia (given at the beginning of the freshman year) unless credit is presented in (1) History 100 or (2) History 351-352 or (3) History 459 and one other course in American History.

100. SURVEY OF AMERICAN HISTORY. (Not open to students who have credit for either History 351 or History 352). *The Staff.*

This course is designed to satisfy the state law requiring that all students receiving degress shall pass an examination on the history of the United States and of Georgia.

111-112. HISTORY OF WESTERN CIVILIZATION. 10 hours (5 hours in each of two quarters). *Mr. Coleman, Mr. Jones, Mr. McPherson, Mr. Murdoch, Mr. Tresp, Mr. C. J. Smith,* and *Mr. J. D. Smith.*

341-342. ENGLISH HISTORY. 10 hours (5 hours in each of two quarters, either quarter elective for final credit, though it is recommended that the whole course be taken). *Mr. McPherson.*

A survey of English history from the earliest times to the present. The division point in the two parts of this course is 1660. Especially recommended to pre-law students and those interested in English literature.

351-352. AMERICAN HISTORY. 10 hours (5 hours in each of two quarters). *Mr. Coleman, Mr. Montgomery, Mr. J. D. Smith,* and *Mr. Vinson.*

An interpretation of the development of the American nation from the age of discovery to the present.

405. CONSTITUTIONAL HISTORY OF THE UNITED STATES. *Mr. Montgomery.*

A study of how actual political and social conditions in American history have produced fundamental constitutional principles and practices.

410. HISTORY OF THE FAR EAST. *Mr. Murdoch.*

A survey of Oriental history with special emphasis on the roles of China and Japan in world affairs during the last two centuries.

420. NINETEENTH CENTURY EUROPE. *Mr. Jones.*

A history of Europe from 1814 to 1914. The main political, international, social, economic, cultural, and intellectual movements will be stressed.

425. ANCIENT HISTORY. *Mr. Jones.* (Not offered in 1960-61).

A survey of the ancient peoples and cultures of the Near East from earliest historical times through the Persian Empire.

430. EUROPE SINCE 1914. *Mr. C. J. Smith.*

Although some attention will be given to the great ideological controversies, the great revolutions, and the prinicpal internal political, social, and economic developments of the major European states, this course will be concerned mainly with the two World Wars of 1914-18 and 1939-45, including their causes and their total impact upon Europe and the world. Approximately equal time will be devoted to the Age of the First World War, 1890-1923, and the Age of the Second World War, 1923-53, with some slight attention to events since 1953.

451. THE AMERICAN COLONIES. *Mr. Coleman.*

A study of the early settlements made in North America by the English, French, Spanish, and Dutch; and how these European peoples made an American society by adapting old world forces to a new world environment. The course ends with the French and Indian War of 1763.

452. THE REVOLUTION AND THE RISE OF THE AMERICAN NATION. *Mr. Coleman.*

This course covers the period of American history from 1763 to 1800, which includes the Revolution, its causes and results; the Articles of Confederation; the writing and adoption of the Federal Constitution; and the administration of George Washington and John Adams.

453. FROM JEFFERSON TO THE CIVIL WAR. *Mr. Montgomery.*

This course covers the period in American history from the election of Thomas Jefferson in 1800 to the election of Abraham Lincoln in 1860. The development of the political, social, and economic factors is traced.

454. THE CIVIL WAR PERIOD OF AMERICAN HISTORY. *Mr. Parks.*

Special attention will be given to the civilian activities of the people, and to the problems of the Northern and Southern governments. Emphasis will be placed on the Confederacy. Only the major military campaigns will be considered.

455. THE RECONSTRUCTION PERIOD. *Mr. Parks.*

The reconstruction of the South along all lines as well as the remaking of the North will be taken up in this course. Beginnings will be found during the Civil War and the process will be continued to 1877.

457. THE ANTE-BELLUM SOUTH. *Mr. Parks.*

This course begins with the late colonial period, when settlers were pushing across the Southern Appalachians, and continues to the secession of the South. All aspects of Southern life and civilization will be dealt with.

458. HISTORY OF AMERICAN DIPLOMACY. *Mr. Vinson.*

A course designed to acquaint the student with the part the United States has played in its relations with other nations and to show the contributions it has made in promoting international morality and the ideals of American democracy abroad.

459. HISTORY OF GEORGIA. *Mr. Coleman.*

A study of Georgia from its first occupation by the Spaniards down to the present. A comprehensive discussion of all aspects of Georgia's development.

460. RUSSIA AND THE SOVIET UNION SINCE 1689. *Mr. C. J. Smith.* (Not offered 1960-61).

A few of the early lectures will be devoted to Russian history prior to 1689, but most of the course will deal with Russia since the Petrine Reform. Approximately equal attention will be given to the following historical periods: 1689-1861, 1861-1921, and 1921 to the present. All aspects of Russian history—military—diplomatic, internal political, socio-economic, and cultural—will be considered.

461. FRANCE IN THE NINETEENTH AND TWENTIETH CENTURIES. *Mr. C. J. Smith.*

A survey of political, social, and economic developments in France and the French colonial empire since the fall of Napoleon I. Domestic events will be stressed rather than foreign or military affairs. As much attention as possible will be given to literary and other cultural developments.

465. THE INDUSTRIAL REVOLUTION IN GREAT BRITAIN, 1760-1870. *Mr. McPherson.*

The development of machines, power, and transportation during the century following 1760.

466. THE BRITISH EMPIRE AND COMMONWEALTH SINCE 1496. *Mr. Jones.*

A survey of British empire and commonwealth problems from the fifteenth century to the present.

473. THE TUDOR PERIOD OF ENGLISH HISTORY, 1585-1603. *Mr. McPherson.*

England's emergence as a modern state. Constitutional, economic, social and intellectual progress, her part in the Renaissance and Reformation, and her increasing international significance.

474. THE STUART PERIOD OF ENGLISH HISTORY, 1603-1714. *Mr. McPherson.* (Not offered 1960-61).

England during the evolution of parliamentary supremacy; the early Stuarts, Civil War, Interregnum, Restoration, and Glorious Revolution. Although constitutional development is stressed, economic, social and intellectual aspects are included.

475. CONSTITUTIONAL HISTORY OF ENGLAND. *Mr. Jones, Mr. McPherson.*

A survey of the British constitutional developments from earliest times to the present, noting especially the growth of the common law, the court system, and the cabinet form of government. Recomemnded particularly for pre-law students.

476. THE AGE OF REASON AND THE FRENCH REVOLUTION, 1660-1815. *Mr. C. J. Smith.* (Not offered 1960-61).

Western Europe in the eighteenth century, centered on France in the Age of Enlightenment, showing how the French Revolution of 1789-1804 was the climax of the gradual decay of one political, social, economic, and intellectual system, and replacement by another.

477. MEDIEVAL EUROPE. *Mr. Tresp.*

The history of Europe from the Fall of Rome to the Renaissance. The topics covered include the barbarian invasions, the growing power of the Church and its struggle with the temporal rulers, feudalism, the Crusades, as well as the social and literary development during the period.

478. THE RENAISSANCE AND REFORMATION. *Mr. Jones.*

A study of the transition from medieval conditions with emphasis on the social, economic and cultural changes of the Renaissance and the great religious upheavel of the sixteenth century.

491. THE LATIN-AMERICAN COLONIES. *Mr. Murdoch.*

This course begins with the voyages of discovery and covers the period of colonization and exploitation of the colonies by Spain and Portugal and ends with the Wars of Independence.

492. THE LATIN-AMERICAN REPUBLICS. *Mr. Murdoch.*

A course devoted to the study of the Latin-American Republics from the time of their independence to the present day.

493. THE CARIBBEAN AREA. *Mr. Murdoch.*

Conquest and settlement of the islands and Caribbean periphery by the Spanish, the intrusions by the French, Dutch, and English, and the more recent developments of the nineteenth and twentieth centuries.

494. A.B.C. POWERS. *Mr. Murdoch.* (Not offered 1960-61).

The history of the political, economic, social and cultural development of Argentina, Brazil, and Chile since the struggle for independence with a brief summary of the late colonial period.

495. THE UNITED STATES IN WORLD AFFAIRS SINCE 1900. *Mr. Vinson.*

The emergence of the United States into an important place in world affairs at the beginning of the twentieth century, its development as a world power, and the part it played in World Wars I and II.

496. RECENT AMERICAN HISTORY, 1900-1950. *Mr. Vinson.*

Special emphasis will be placed on domestic politics and cultural developments. American diplomacy will be excluded.

800. HISTORICAL METHOD. *Mr. Parks* or *Mr. Vinson.*

Required of graduate students majoring in history. This course will include methods of research and various aids, as well as the generally accepted usages in historical composition. Also, it will take up a survey of the history of historical writing.

801. RESEARCH TOPICS IN AMERICAN HISTORY. *Members of the Department on the Graduate Faculty.*

Topics vary from year to year.

A. Concepts in American Diplomacy. *Mr. Vinson.*
B. Far Eastern Policy of the United States, 1898-1956. *Mr. Vinson.*
C. The New Deal. *Mr. Vinson.*
D. American Negro Slavery. *Mr. Parks.*
E. Military Campaigns of the Civil War. *Mr. Parks.*

802. AMERICAN HISTORIOGRAPHY. *Mr. Montgomery* or *Mr. Parks.*

A study of books and course materials on American history, historical aids, and American historians.

807. THE AGE OF JACKSON. *Mr. Montgomery.*

A study of the outstanding developments during the presidency of Andrew Jackson.

830. PROBLEMS IN EUROPEAN DIPLOMACY, 1890-1923. *Mr. C. J. Smith.* (Not offered 1960-61).

Selected problems related to the origins of World War I, the diplomacy of the war and the Paris Peace Conference.

854. THE CONFEDERATE STATES OF AMERICA. *Mr. Parks.* (Not offered 1960-61).

Problems of a government attempting to organize itself in the midst of war, with emphasis on the non-military aspects of its developments.

858. THE UNITED STATES BETWEEN TWO WARS, 1919-1939. *Mr. Vinson.*

Aims, methods, and accomplishments of the United States in foreign affairs in the period between the two World Wars.

859. COLONIAL GEORGIA. *Mr. Coleman.*

Colonial life and institutions in Georgia—a unique experiment in British colonial policies.

861. THE RUSSIAN REVOLUTION, 1905-1921. *Mr. C. J. Smith.*

The period in which the power in Russia was seized by the Communists.

870. THE AGE OF REFORM IN GREAT BRITAIN, 1815-1870. *Mr. Jones.* (Not offered 1960-61).

Britsh adjustments to the society created by the Industrial Revolution in which economic, social, and religious topics are taken up.

894. STUDIES IN LATIN AMERICAN HISTORY SINCE 1825. *Mr. Murdoch.*

History of some regional groupings of Latin American republics, as for instance the Caribbean, northern South American, Chile, and Argentina; and especially in the modern period, political, economic, social, and cultural problems.

MATHEMATICS

(Mathematics, Geography and Geology Building, South Campus)

Head: Fort. Staff: Ball, Brahana, Cohen, Collins, Daughtry, Flanigen, Hill, Horne, Huff, Hunter, Jacobson, Jewett, Stanley.

99. REMEDIAL COURSE IN ALGEBRA. 3 hours. *The Staff.*

A course designed for students who have had insufficient high school preparation to enter 100 or who for other reasons are deficient in their mathematics; devoted to drill on elementary and intermediate algebra; meets five times per week.

100. COLLEGE ALGEBRA. Prerequisite: at least two units of high school mathematics including one year of algebra. *The Staff.*

Review of some elementary algebra, quadratic equations, binomial theorem, progressions, complex numbers, theory of equations.

101. TRIGONOMETRY. Prerequisites: at least two units in high school mathematics, including one year of algebra. *The Staff.*

Trigonometry with some study of probability and statistics.

210. ANALYTIC GEOMETRY. Prerequisite: Mathematics 100-101.

The straight line, circle, and conic sections.

254. CALCULUS. Prerequisite: Mathematics 210. *The Staff.*

A beginning course in differential calculus.

255. CALCULUS. A continuation of Mathematics 254. *The Staff.*

Integral calculus and other more advanced topics.

401. DIFFERENTIAL EQUATIONS. Prerequisite: Mathematics 255. *The Staff.*

Elementary differential equations with applications to geometry and physics.

402. VECTOR ANALYSIS. Prerequisite: Mathematics 255. *The Staff.*

A study of vector methods and their physical applications.

441. INTRODUCTION TO HIGHER ALGEBRA. Prerequisite: Mathematics 255. *The Staff.*

Theory of equations, polynomials, and determinants. Topics in modern algebra.

442. INTRODUCTION TO HIGHER ALGEBRA. Prerequisite: Mathematics 441. *The Staff.*

Matrices, invariants, theory of elimination. Additional topics in modern algebra.

454, 455. AN INTRODUCTION TO THE FOUNDATIONS OF ANALYSIS. 10 hours. Prerequisite: Mathematics 255. *The Staff.*

An accurate treatment of certain questions concerning continuity of a function, differentiation, Riemann integration, measure of linear point sets, and Lebesgue integration.

457. CALCULUS. Prerequisite: Mathematics 255. *The Staff.*

Improper integrals, infinite series, partial differentiation, multiple integrals.

458. ADVANCED CALCULUS. *The Staff.*

Elliptic integrals, line integrals and Green's Theorem, Fourier series, implicit functions, functional determinants.

461. ADVANCED ANALYTIC GEOMETRY. Prerequisite: Mathematics 255. *The Staff.*

A careful introduction to the analytic geometry of Euclidean space, beginning with elementary propositions on real vectors.

462. PROJECTIVE GEOMETRY. Prerequisite: Mathematics 461. *The Staff.*

The algebra of homogenous co-ordinates; duality; cross-ratio; classification of projective transformations; configurations of lines and points; the conic.

470. THEORY OF PROBABILITY. Prerequisite: Mathematics 255. *The Staff.*

A rigorous and precise treatment of basic probability theory.

502. BASIC IDEAS OF ARITHMETIC. Prerequisites: Mathematics 100; Education 103, 304, 335, 336 or two years of teaching experience. *Mr. Huff* and *Mr. Jewett.*

Designed to give elementary teachers a clear understanding of the fundamental ideas of arithmetic. The operation will be studied in several number systems.

510. FUNDAMENTAL IDEAS OF ALGEBRA. Prerequisite for Graduate credit: Mathematics 100-101 and either two mathematics courses numbered over 200 or two years of teaching high school algebra. Graduate credit will be allowed toward the Master of Education degree only. *Mr. Huff.*

A course designed to help teachers of high school algebra. It will stress those fundamental ideas, some of which are modern, which determine the structure of elementary algebra.

512. COLLEGE GEOMETRY. Prerequisite for Graduate credit: Mathematics 100-101 and two years of teaching high school geometry. Summer quarter only. *Mr. Brahana* and *Mr. Huff.*

A course in more advanced elementary geometry especially designed for prospective teachers of secondary school mathematics.

514. ELEMENTARY SET THEORY FOR TEACHERS. Prerequisite: Mathematics 255 or two years experience as a mathematics teacher. *Mr. Fort* and *Mr. Jewett.*

An elementary course in the theory of sets.

516. MODERN ALGEBRA FOR TEACHERS. Prerequisite: Mathematics 255 or two years of experience as a mathematics teacher. *Mr. Brahana* and *Mr. Jewett.*

The elementary theory of groups, rings, fields and linear algebra.

800, 801, 802. TOPICS IN ANALYSIS. 9 hours. *Mr. Horne* or *Mr. Jewett.*

Basic general topology; category theorems; Lebesgue integration; Banach spaces.

810, 811, 812. POINT SET THEORY. 9 hours. Prerequisite: Mathematics 654 or consent of the instructor. *Mr. Ball* or *Mr. Fort.*

An axiomatic treatment of certain aspects of point set theoretic analysis situs. A considerable degree of mathematical maturity is required.

821, 822, 823. ALGEBRAIC TOPOLOGY. 9 hours. *Mr. Brahana.*

Complexes, combinatory homology theory, function spaces, fiber spaces, covering spaces, homatopy groups, singular homology theory, exact couples, special sequences and applications.

843, 844, 845. MODERN ALGEBRA. 9 hours. Prerequisite: Mathematics 442. *Mr. Horne* or *Mr. Hunter.*

Domains, rings, fields, linear algebra.

863. ALGEBRAIC GEOMETRY. Prerequisite: Mathematics 462. *Mr. Huff* or *Mr. Brahana.*

Groups of transformations; invariants; geometrics, algebraic curves.

864. ALGEBRAIC CURVES. Prerequisite: Mathematics 863. *Mr. Huff* or *Mr. Brahana.*

Theory of curves over the field of complex numbers, singularity of curves, genus.

891. MATHEMATICS SEMINAR. 1 to 10 hours. Prerequisite: Undergraduate major in mathematics or equivalent and two quarters of graduate work in mathematics. *The Staff.*

A study by the seminar method of some phase of current research in mathematics.

930. THESIS IN MATHEMATICS. 5 to 50 hours. *The Graduate Staff.*

STATISTICS

356. STATISTICS. Prerequisite: Mathematics 100. *Mr. Cohen.*

An elementary course in statistics.

451. MATHEMATICAL STATISTICS. Prerequisites: Mathematics 255 and either 356 or 470. *Mr. Cohen.*

The mathematical theory of statistical methods, probability, and sampling distributions.

452. MATHEMATICAL STATISTICS. Prerequisite: Mathematics 451. *Mr. Cohen.*

Continuation of Mathematics 451.

456. ADVANCED STATISTICAL METHODS. 3 hours. Prerequisite: Mathematics 356. *Mr. Cohen.*

Methods studied in Mathematics 356 will be covered from an advanced viewpoint and in more detail. Advanced applications from the physical, biological, and social sciences.

460. STATISTICAL METHODS OF QUALITY CONTROL. Prerequisite: Mathematics 100, Mathematics 356 or Economics 312 for undergraduate credit; Mathematics 100, Mathematics 356 or Economics 312, and Business Administration 351 for graduate credit. Graduate credit is given toward the M.B.A. degree only. *Mr. Cohen.*

A review of fundamental statistical concepts including frequency distributions, averages, measures of dispersion, the construction and use of the Shewhart Control Charts, and techniques of acceptance sampling.

853. MATHEMATICAL STATISTICS. 3 hours. Prerequisite: Mathematics 458. *Mr. Cohen.*

Theory of estimation and testing hypotheses.

INSTITUTE OF STATISTICS

ALONZO CLIFFORD COHEN, JR., B.S., M.S., M.A., Ph.D., *Director*
JAMES LAVERN CARMON, B.S.A., M.S., Ph.D., *Associate Director.*

Staff: James Edward Greene, A.B., M.A., Ph.D., Milton Holmes Hodge, Jr., Ph.D., Harold Donald Morris, B.S., M.S., Ph.D., James Henry Bamping, B.S.F., M.S.F., James Camp Fortson, B.S.A., M.S., John Paul Gill, A.B., M.A, Ph.D.

Courses offered by the Institute of Statistics and joint listed with departments and colleges of the University are indicated below. Course descriptions will be found under the appropriate departmental listings.

STATISTICS LISTING	TITLE	JOINT LISTING	
Stat. 312	ECONOMIC STATISTICS	Econ.	312
Stat. 356	INTRODUCTORY MATHEMATICAL STATISTICS	Math.	356
Stat. 418	EDUCATIONAL STATISTICS	Educ.	418
Stat. 423	PRINCIPLES OF EXPERIMENTAL METHODS	Agron.	423
Stat 451-2	INTERMEDIATE MATHEMATICAL STATISTICS	Math.	451-2
Stat. 456	ADVANCED STATISTICAL METHODS	Math.	456
Stat. 458	STATISTICS IN PSYCHOLOGICAL RESEARCH	Psych.	458
Stat. 460	STATISTICAL QUALITY CONTROL	Math.	460
Stat. 470	THEORY OF PROBABILITY	Math.	470
Stat. 500	PROGRAMMING FOR ELECTRONIC COMPUTERS	Math.	500
Stat. 520	PUNCHED CARD STATISTICS	Bus. Adm.	520
Stat. 591	APPLIED ECONOMIC STATISTICS	Econ.	591
Stat. 812	ADVANCED STATISTICS IN EDUCATION AND PSYCHOLOGY	Educ.	812
Stat. 826	STATISTICS IN ANIMAL SCIENCE	An. Husb.	826
Stat. 827	EXPERIMENTAL DESIGN	Agron.	827
Stat. 828	POPULATION GENETICS	An. Husb.	828
Stat. 853	TESTS OF HYPOTHESES	Math.	853
Stat. 891	RESEARCH IN APPLIED ECONOMIC STATISTICS	Econ.	891
Stat. 892	TIME SERIES ANALYSIS	Econ.	892
Stat. 930	THESIS	Math.	930

MICROBIOLOGY

(See Bacteriology)

MODERN FOREIGN LANGUAGES

Head: Jordan. Staff: Alciatore, deGorog, Deinert, Downs, Jones, Levitsky, Lott, McGregor, Peterson, Shedd, *Terry, Williams, Womack.

**A student continuing a language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

A student who has satisfied the language requirement for his degree in one foreign language may count the courses taken during his junior and senior years in any other foreign language, regardless of course numbers, towards his senior division requirement of 60 hours.

FRENCH

101-102. ELEMENTARY FRENCH. 10 hours. *The Staff.*

(Students in this course may be required to spend a maximum of one hour a week outside of class in the language laboratory.)

A course designed to teach the student to pronounce French, to conduct simple conversations, and to read texts within a limited vocabulary range. Oral practice, emphasis upon sentence patterns, and the fundamental principles of structure.

103. INTERMEDIATE FRENCH. Prerequisite: French 102 or two entrance units in French. *The Staff.*

Intensive and extensive reading. Texts of moderate difficulty selected from well known authors. A rapid review of French grammar, irregular verbs, and idioms.

104. INTERMEDIATE FRENCH. Prerequisite: French 103 or its equivalent. *The Staff.*

Intensive and extensive reading of texts of marked literary merit. Pronunciation and conversation, Prepares students to read French in their specialized fields, to enter courses in French literature (201 or 202), or to enter courses in conversation and composition (106).

106. INTERMEDIATE FRENCH CONVERSATION AND COMPOSITION. Prerequisite: French 104. *Mr. deGorog* and *Mr. Jones.*

The emphasis is divided between conversation (three days a week) and composition (two days a week). The two phases of the course are correlated to promote the student's ability to express himself accurately whether in speaking or in writing French. A strongly suggested elective for anyone planning to major in French.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. AN INTRODUCTION TO THE STUDY OF FRENCH LITERATURE. Prerequisite: French 104. *Mr. Alciatore, Mr. Downs, Mr. Jones,* or *Mr. Jordan.*

A study of the main literary movements and major works of representative French writers from the twelfth through the seventeenth centuries.

202. AN INTRODUCTION TO THE STUDY OF FRENCH LITERATURE. Prerequisite: French 104. *Mr. Alciatore, Mr. Downs, Mr. Jones,* or *Mr. Jordan.*

A study of the main literary movements and major works of representative French writers of the eighteenth and nineteenth centuries.

French 201 and 202 are prerequisite to the following French courses except as indicated. French 202 may be taken either before or after French 201.

408. FRENCH LITERATURE OF THE RENAISSANCE. *Mr. Downs.*

Origins and development of the Renaissance in France, political and social influences, analysis of major works, reports, collateral readings, term paper.

430. THE ROMANTIC MOVEMENT IN FRANCE. *Mr. Downs.*

The origins of the movement in France with the principal emphasis upon Rousseau, Chateaubriand, and Madame de Stael. Foreign influences. The formation of the *cenacles.* Chief literary manifestoes. Analysis of representative works; Lamartine, Hugo, Vighy, Mussett, and minor poets—poetry, novels, and drama. Collateral reading, reports, and a term paper. This course is designed as the first of a series of three; it should be followed by 431 and 432.

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*On leave.

**For the language requirements for various degrees in the College of Arts and Sciences see page 119.

431. THE FRENCH NOVEL SINCE ROMANTICISM. *Mr. Alciatore.*

The novel as it evolved from Romanticism to Realism and from Realism to Naturalism. Analysis of subjective elements and of character development. The cult of form. The increasing influence of science. The reaction against Naturalism. Primary attention to Stendahl, Balzac, Flaubert, and Zola. Lectures and collateral reading. This course is designed to follow 430 and to correlate with 432.

432. FRENCH DRAMA AND POETRY SINCE ROMANTICISM. *Mr. Alciatore.*

Baudelaire. The Parnassians: Leconte de Lisle and Heredia. The Symbolists: Verlaine, Mallarme, etc. The Mid-Nineteenth Century Social Drama of Dumas fils and Augier, Henry Becque, Antoine and the origins of the Little Theatre Movement. The Post-Naturalistic Drama of Maeterlinck, Porto Riche, Rostand, and others. Attention will be given at the end of this course to the development of French literature in all genres at the conclusion of the nineteenth century and the beginning of the twentieth century. Lectures, analysis of texts, collateral reading. The course is designed to follow 430 and to correlate with 431.

433. FRENCH DRAMA OF THE TWENTIETH CENTURY. *Mr. Jones.*

French drama since the first World War with its intellectual, cultural and social backgrounds. The new *animateurs de theatre,* new concepts of tragedy, avant-garde theatres. Special emphasis will be placed on the plays of Claudel, Romains, Lenormand, Bourdet, Giraudoux, Anouilh, Cocteau, Montherlant, Sartre and Camus.

434. THE FRENCH NOVEL OF THE TWENTIETH CENTURY. *Mr. Jones.*

The French novel since 1920 with its intellectual, cultural and social backgrounds. Special emphasis will be placed on the works of Gide, Proust, Malraux, Mauriac, Sartre, Camus, Giono and Montherlant. The avant-garde novels and regional novels of the period will also be discussed.

459. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY—First half. *Mr. Jordan.*

The growth of the Classic Ideal with emphasis on the political, religious, social, and artistic background of the period. The evolution of poetic and prose styles with emphasis upon Malherbe, Descartes, Pascal, and Bossuet. The development of the classic tragedy with Pierre Corneille. This course will not be arbitrarily limited to the literature before 1660 but will deal as fully as possible with such authors as Boileau and La-Fontaine in order that 460 may concentrate on two writers only. Lectures, anlyasis of texts, collateral reading.

460. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY—Second half. *Mr. Jordan.*

This course will concentrate almost exclusively on Racine and Moliere. A study of dramatic techniques and an analysis of characters. Many plays will be read and discussed in class; others will be assigned for collateral reading. Lectures and criticism of texts. This course is designed to follow 459.

461. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. *Mr. Downs* or *Mr. Alciatore.*

The growth of French rationalism. The growth of sensibility. *Belles-Lettres.* Bayle, Fontenelle, Montesquieu, Voltaire, Rousseau, Diderot, d'Holbach, Condillac. Helvetius; Marivaux, Lesage, Beaumarchais, Andre Chenier, and others. Lectures, collateral reading, analysis of texts.

500. FOREIGN LANGUAGE LABORATORY TECHNIQUES AND MATERIALS. Prerequisites: 15 quarter hours of French with a total of 20 quarter hours of foreign language study and permission of the instructor. *The Staff.*

Designed to meet the needs of public school teachers faced with a problem of using efficiently the many new Audio-Visual techniques and materials available to Modern Foreign Language teachers. One oral drill with the use of new techniques.

556. ADVANCED FRENCH SYNTAX AND COMPOSITION. No prerequisite beyond French 104. *The Staff.*

Comprehensive review; suggested for teachers of French.

557. FRENCH PHONETICS. Prerequisites: French 201-202 or French 106. *Mr. Downs.*

A careful analysis of each of the sounds in the French language followed by intensive drill in the accurate pronounciation of these sounds in connected discourse. Practice in phonetic transcription; use of records and films for drill in intonation and conversation.

581. (EDUCATION) PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *Mr. Shedd.*

History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary and reading. Visual aids and realia, individual differences, tests and measurements. Evaluation of texts, course content.

590. FRENCH FOR TEACHERS. Prerequisites: 15 quarter hours of French with a total of 20 quarter hours of foreign language study and permission of the instructor. 5 to 10 hours. *The Staff.*

Designed to be of special benefit to teachers who have been out of contact with the language for some time or who for any reason may need a "refresher" course. Oral as well as grammatical review.

809, 810, 811. SEMINAR ON ROMANTICISM. 5 hours each. *Mr. Downs.*

Deals with one major writer of the Romantic Period.

812, 813, 814. SEMINAR ON THE NINETEENTH CENTURY NOVEL. 5 hours each. *Mr. Alciatore.*

An intensive study of one novelist.

820, 821, 822. SEMINAR ON 20TH CENTURY LITERATURE. *Mr. Alciatore* and *Mr. Jones.*

An intensive study of one major 20th Century writer.

870. INTRODUCTION TO OLD FRENCH. *Mr. deGorog.*

A history of the French Language from the appearance of the first texts in the 9th Century to the Renaissance, with linguistic analysis of representative texts.

GERMAN

101-102. ELEMENTARY GERMAN. 10 hours. *The Staff.*

(Students in this course may be required to spend a minimum of one hour a week outside of the class in the language laboratory.)

Fundamentals of grammar, pronunciation, conversation, composition, reading, and translation.

103. INTERMEDIATE GERMAN. Prerequisite: German 102 or two entrance units in German. *The Staff.*

Grammar review, reading and translation of intermediate texts, composition, and conversation.

104. INTERMEDIATE GERMAN. Prerequisite: German 103. *The Staff.*

Extensive readings in modern German prose, composition and conversation.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. INTRODUCITON TO GERMAN LITERATURE. Prerequisite: German 104 or German 205. *Mr. deGorog, Mr. Deinert,* and *Mr. Levitsky.*

A study of representative works of German literature from its beginning through the eighteenth century.

202. INTRODUCTION TO GERMAN LITERATURE. Prerequisite: German 104 or German 205. *Mr. deGorog, Mr. Deinert,* and *Mr. Levitsky.*

A study of the main literary movements and major works of representative German writers of the nineteenth and twentieth centuries.

205. SCIENTIFIC GERMAN. Prerequisite: German 103. *Mr. deGorog* and *Mr. Levitsky.*

Readings in chemical, medical, and biological German.

210. ADVANCED CONVERSATION AND COMPOSITION. Prerequisite: German 104.

Three recitations and two double periods for oral practice each week.

ITALIAN

101-102 ELEMENTARY ITALIAN. 10 hours. *Mr. Downs.*

(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)

Grammar and composition, conversation, reading and dictation.

103. INTERMEDIATE ITALIAN. Prerequisite: Italian 102. *Mr. Downs.*

Intermediate grammar, reading, conversation, dictation, and composition.

104. ITALIAN GRAMMAR, COMPOSITION, AND CONVERSATION. Prerequisite: Italian 103. *Mr. Downs.*

An intensive reading of Dante's "Inferno," collateral reading, advanced conversation.

201. INTRODUCTION TO ITALIAN LITERATURE. Prerequisite: Italian 104. *Mr. Downs.*

A study of the main literary movements and major works of representative Italian writers from the beginning through the 17th Century.

202. INTRODUCTION TO THE STUDY OF ITALIAN LITERATURE. Prerequisite: Italian 104. *Mr. Downs.*

A study of the main literary movements and major works of representative Italian writers of the 18th and 19th Centuries.

RUSSIAN

(Students are advised not to take Russian without two units or the equivalent in another language.)

101-102. ELEMENTARY RUSSIAN. 10 hours. *Mr. Levitsky.*

Grammar and composition, conversation, reading and dictation.

103. INTERMEDIATE RUSSIAN. Prerequisite: Russian 102. *Mr. Levitsky.*

Intermediate grammar, reading, conversation, dictation, and composition.

104. RUSSIAN GRAMMAR, COMPOSITION, AND CONVERSATION. Prerequisite: Russian 103. *Mr. Levitsky.*

Advanced grammar, reading, oral and written composition, conversation, dictation.

401. INTRODUCTION TO MODERN RUSSIAN LITERATURE. (in translation). Prerequisite: 10 credits from among the following: English 121-122, French 201-202, German 201-202, Spanish 201-202, Italian 201-202 or 25 hours of foreign language including not less than 15 hours of Russian. *Mr. Levitsky.*

A survey of the golden age of Russian literature (first half of the 19th century) with emphasis on poetry and the drama. Reading, in translation, of representative works by Pushkin, Lermontov, Gogol, Griboedov, and Goncharov, and of selections from the works of lesser writers. Students who have studied the Russian language are required to read certain selections in the original.

402. INTRODUCTION TO MODERN RUSSIAN LITERATURE. (in translation). Prerequisites: 10 credits from among the following: English 121-122, French 201-202, German 201-202, Spanish 201-202, Italian 201-202 or 25 hours of foreign language including not less than 15 hours of Russian. *Mr. Levitsky.*

A survey of Russian prose literature between 1850-1917. Reading, in translation, of representative works by Dostoevski, Turgenev, Chekhov, Tolstoi, and Gorki, and of selections from the works of lesser writers. Students who have studied the Russian language are required to read certain selections in the original.

SPANISH

101-102. ELEMENTARY SPANISH. 10 hours. *Mr. Williams* and *the Staff.*

(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)

Pronunciation, fundamentals of grammar, reading and conversation.

103. INTERMEDIATE SPANISH. Prerequisite: Spanish 102 or two entrance units in Spanish. *Mr. Shedd* and *the Staff.*

A rapid review of Spanish grammar, irregular verbs, and idioms. Intensive and extensive reading.

104. INTERMEDIATE SPANISH. Prerequisite: Spanish 103. *Mr. Shedd* and *the Staff.*

Intensive and extensive reading of texts of marked literary merit. Pronunciation and conversation. Prepares students to read Spanish in their specialized fields, to enter courses in Spanish literature (201), or to enter courses in conversation and composition (106).

106. SPANISH CONVERSATION AND COMPOSITION. Prerequisite: Spanish 104. *Mr. Williams.*

The emphasis is divided between conversation (three days a week) and composition (two days a week). The two phases of the course are correlated to promote the student's ability to express himself accurately whether in speaking or in writing Spanish. A strongly suggested elective for anyone planning to major in Spanish.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. INTRODUCTION TO SPANISH LITERATURE. Prerequisite: Spanish 104. *Mr. Lott, Mr. Shedd* or *Mr. Williams.*

A study of representative works of Spanish literature from its beginning through the Golden Age.

202. INTRODUCTION TO SPANISH LITERATURE. Prerequisite: Spanish 104. *Mr. Lott, Mr. Shedd* or *Mr. Williams.*

A study of representative works of Spanish literature from the Golden Age to the present.

306. SPANISH COMMERCIAL CORRESPONDENCE AND ADVANCED CONVERSATION. Prerequisite: Spanish 104. *Mr. Shedd.*

A study of special forms and construction of business letters with conversation based on Spanish-American material.

Spanish 201 and 202 are prerequisite to the following Spanish courses except as indicated. Spanish 202 may be taken either before or after Spanish 201.

420. THE MODERN SPANISH NOVEL. *Mr. Williams.*

A study of trends of the Spanish novel of the nineteenth and twentieth centuries.

421. THE DRAMA OF THE GOLDEN AGE. *Mr. Shedd.*

A study of the principal dramatists and their works with particular emphasis on Lope de Vega, Tirso de Molina, Ruiz de Alarcon, and Calderon de la Barca.

422. SPANISH PROSE OF THE GOLDEN AGE. *Mr. Williams.*

A study of the novel and short story of this period with emphasis on Cervantes.

423. THE DRAMA OF THE NINETEENTH CENTURY. *Mr. Williams.*

A study of the principal trends in the development of the drama with reading from representative authors. Particular emphasis on the Romantic Drama and the Comedy of Manners.

424. SPANISH PROSE BEFORE THE GOLDEN AGE. *Mr. Williams.*

A study of the exemplar collections, La Celestina, the chivalresque, sentimental, and Moorish novel.

425. THE MODERN DRAMA. *Mr. Williams.*

A study of representative writers and their works from Perez Galdos to the present day.

430. SPANISH-AMERICAN POETRY. *Mr. Shedd.*

A study of the contribution of the Spanish-American nations to the development of poetry. Readings from representative poets of the several countries.

431. SPANISH-AMERICAN PROSE. *Mr. Shedd.*

A study of the essay and novel as developed in the Spanish-American nations. Readings from representative writers of the several countries.

500. MODERN LANGUAGE LABORATORY TECHNIQUES AND MATERIALS. Prerequisites: 15 quarter hours of Spanish with a total of 20 quarter hours of foreign language study and permission of the instructor. *The Staff.*

Designed to meet the needs of public school teachers faced with the problem of using efficiently the many new Audio-Vasual techniques and materials available to Modern Foreign Language teachers. Oral drill with the use of new techniques.

526. ADVANCED SPANISH SYNTAX AND COMPOSITION. *Mr. Shedd.*

A study of grammatical forms and usages with particular reference to the needs of those preparing to teach.

528. SPANISH PHONETICS. *Mr. Williams.*

A study of the organs of speech, the difference in production of Spanish and English speech sounds, and the various speech phenomena. Practice in phonetic transcription, pronunciation, and intonation.

581. (EDUCATION) PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *Mr. Shedd.*

History of method, psychology of language learning, values, objectives, pedagogy of technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary and reading. Visual aids and realia, individual differences, tests and measurements. Evaluation of texts, course content.

590. SPANISH FOR TEACHERS. 5 to 10 hours. Prerequisite: 15 quarter hours of Spanish with a total of 20 quarter hours of foreign language study and permission of the instructor. *The Staff.*

Designed to be of special benefit to teachers who have been out of contact with the language for some time or who for any reason may need a "refresher" course. Oral as well as grammatical review.

808. CERVANTES. *Mr. Williams.*
A study of Cervantes' work with emphasis on Don Quixote and the Exemplary Novels.

809. THE MODERNISTA MOVEMENT IN SPANISH-AMERICA. *Mr. Shedd.*
A study of Ruben Dario, his contemporaries and followers.

870. INTRODUCTION TO OLD SPANISH. *Mr. deGorog.*
A history of the Spanish Laguage from the appearance of the first Spanish documents until the Renaissance, with linguistic analysis of representative texts.

MUSIC

Head: Hodgson. Staff: Anderson, Barnes, Dancz, Dunaway, Geverts, Harwell, Karlas, Kimble, Leonard, Main, Mitchell, Newman, Warner.

THEORETICAL COURSES

(For Music Students)

110. FUNDAMENTALS OF MUSIC. 3 hours. (Meets five times a week). *Theory Staff.*
A student expecting to take this course must take an entrance examination.

111. THEORY: INTRODUCTION TO HARMONY, SIGHT-SINGING, AND DICTATION, 3 hours. (Meets five times a week.) Prerequisite: Music 110 or examination. *Theory Staff.*
Includes part-writing of all triads, sight-singing, dictation, and keyboard harmony.

112. THEORY: ELEMENTARY HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 111. *Theory Staff.*
Part-writing of triads in inversions, dominant seventh chord, sight-singing, dictation, and keyboard harmony.

134. THEORY: INTERMEDIATE HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Music 112. *Theory Staff.*
Secondary seventh chords and inversions, sight-singing, dictation, and keyboard harmony.

135. THEORY: INTERMEDIATE HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 134. *Theory Staff.*
Altered chords, ninth chords, augmented sixth chords, sight-singing, dictation, and keyboard harmony.

136. THEORY: ADVANCED HARMONY. 3 hours. (Meets five times a week.) Prerequisite: Music 135. *Theory Staff.*
Modulation, chromatic harmony, modal harmony, survey of modern techniques.

333. ADVANCED THEORY AND EXERCISES IN COMPOSITION. Prerequisite: Music 136. *Mr. Main.*
An introduction to contemporary musical techniques for the performer and the composer.

370. FORM AND ANALYSIS. Prerequisite: Music 134, 135, 136. *Mr. Anderson* or *Miss Kimble.*
Harmonic and polyphonic forms analyzed. Special stress given sonata form and Bach's "Well-Tempered Clavier." Students encouraged to write originally in forms thus analyzed.

371. COUNTERPOINT. Prerequisites: Music 134, 135, 136 and 370. *Mr. Anderson.*
The contrapuntal style and techniques of the sixteenth century, acquaintance with species counterpoint.

374. ORCHESTRATION. 3 hours. Prerequisite: Music 370 (May be taken at same time). *Mr. Main* or *Mr. Mitchell.*
Principles and practices of instrumentation for chamber music, ensembles, and orchestra.

375. ORCHESTRATION. 3 hours. Prerequisite: Music 374. *Mr. Mitchell.*
Principles and practices of instrumentation for orchestra and concert band.

475. ADVANCED COUNTERPOINT. Prerequisite: Music 371. *Mr. Main.*
Late Baroque contrapuntal techniques and styles.

476. COMPOSITION. 2 hours. Prerequisite: Music 370, 371, 333, and consent of instructor. *Mr. Main.*
Writing in smaller forms.

477. COMPOSITION. 2 hours. Prerequisite: Music 476. *Mr. Main.*
Writing in smaller forms.

478. COMPOSITION. 2 hours. Prerequisite: Music 477. *Mr. Main.*
Writing in larger forms.

MUSIC LITERATURE COURSES

(Open to All Students)

103. APPRECIATION. 3 hours. (One hour each quarter.) One lecture recital a week. Open to the public. *Mr. Hodgson.*
Credit given only to students taking another theoretical music course. Special permission from instructor required before registering for credit.

122. HISTORY OF MUSIC. 2 hours. *Mr. Anderson* and *Miss Kimble.*
A survey of important musical works and trends from the Baroque Period to the beginning of the Romantic Period.

123. HISTORY OF MUSIC. 2 hours. *Miss Harwell* and *Miss Kimble.*
A survey of important musical works and composers from the beginning of the Romantic Period to the present day.

124. HISTORY OF MUSIC. 2 hours. *Mr. Anderson* and *Miss Kimble.*
Survey of important musical works and trends through the Renaissance.

343. LISTENER'S HISTORY OF MUSIC. 3 hours. *The Staff.*
A study of many of the masterpieces of music since the time of Bach; an introduction to music literature.

350. DEVELOPMENT OF OPERA. *Mr. Hodgson* and *Mr. Warner.*
A general literature course in the appreciation of the entire field of opera. Illustrations from selected scores played in class.

353. HISTORY OF PIANO AND VOICE LITERATURE. 3 hours. *Miss Harwell* and *Mr. Warner.*

358. HISTORY AND ANALYSIS OF MUSICAL STYLE. *Miss Harwell* and *Mr. Hodgson.*
Designed especially for art majors.

442. WAGNER'S MUSIC DRAMAS. 3 hours. Prerequisite for graduate credit: Music 124 or equivalent and two music courses numbered 200-399. *Mr. Hodgson* and *Miss Harwell.*
A course of literary and cultural value, concentrating on a detailed study of the plots and themes of the Wagner operas, with scores played in class.

455. MUSIC LITERATURE SURVEY AND ADVANCED MUSIC HISTORY. Prerequisite: Music 122, 123, 124, or equivalent. *Mr. Anderson.*
A more intensive study of music history, especially the earlier periods.

456. BACH-BEETHOVEN-BRAHMS. 3 hours. Prerequisite for graduate credit. Music 124 or equivalent and two music courses numbered 200-399. *Miss Harwell* or *Mr. Main.*
A detailed study of the three composers, with their masterpieces performed in class.

457. BEETHOVEN SYMPHONIES. 3 hours. Prerequisite for graduate credit: Music 124 or equivalent, and two music courses numbered 200-399. *Mr. Hodgson* and *Miss Kimble.*
A detailed study of the nine symphonies of Beethoven.

462. MODERN MUSIC. Prerequisite for graduate credit: Similar to Music 457. *Mr. Anderson* and *Mr. Hodgson.*
A literature course illustrating modern trends in music of Schoenberg, Stravinsky, Hindemith, Bartok, Scriabin, and others.

METHODS COURSES

(For Music Education Students)

251. STRING METHODS. 2-4 hours. Basic principles as applied to all strings. *Miss Barnes* and *Miss Geverts.*

252. WOODWIND METHODS. 2-4 hours. Basic principles as applied to all woodwinds. *Staff.*

253. BRASS METHODS. 2-4 hours. Basic principles as applied to all brasses. *Mr. Dancz* and *Mr. Mitchell.*

263. MUSIC LABORATORY. 1 hour. *Mr. Warner.*
Laboratory for choral conducting.

264. MUSIC LABORATORY. 1 hour. *Mr. Main.*
Laboratory for minor instruments and orchestral conducting.

265. MUSIC LABORATORY. 1 hour. *Mr. Dancz.*
Laboratory for minor instruments and band conducting.

302. METHODS OF TEACHING PUBLIC SCHOOL MUSIC. For Education majors only. *Mr. Leonard.*
Techniques of teaching music in the elemtary school, for the classroom teacher.

312. PUBLIC SCHOOL MUSIC FOR ELEMENTARY GRADES. For Music majors. Prerequisite: Music 112. *Mr. Newman.*

313. MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS. Prerequisite: Music 112. *Mr. Newman.*

361. ELEMENTARY CONDUCTING. 2 hours. Prerequisite: Music 136. *Mr. Warner.*
Principles of conducting and interpretation with vocal ensembles.

362. ELEMENTARY CONDUCTING. 2 hours. Prerequisite: Music 136. *Mr. Main.*
Principles of conducting and interpretation with instrumental ensembles.

363. ELEMENTARY CONDUCTING. 2 hours. Prerequisite: Music 136. *Mr. Dancz.*
Principles of conducting and interpretation with instrumental ensembles.

365. SURVEY OF CHORAL MUSIC AND TECHNIQUE OF CHORAL CONDUCTING. *Mr. Leonard* or *Mr. Warner.*

389. VOICE CLASS. 2 hours. *Mr. Leonard* or *Mr. Warner.*
Study of basic principles of voice production and how to apply them in glee clubs and choruses.

714. WORKSHOP FOR TEACHERS IN MUSIC EDUCATION. *Mr. Newman* and *Mr. Mitchell.*
Course designed to meet the needs of elementary school teachers, instructional supervisors, and music teachers.

731. PROBLEMS IN VOCAL MUSIC EDUCATION. 3 hours. Prerequisite: Music 312 and 313. *Mr. Leonard* or *Mr. Newman.*
Detailed study of voice problems from classroom point of view beginning in elementary and continuing through secondary school; technique used in choral ensembles; evaluation of present concepts and practices.

732. PROBLEMS IN INSTRUMENTAL MUSIC EDUCATION. 3 hours. Prerequisite: Music 312 and 313. *Mr. Newman.*
Study of techniques used for development of the instrumental music program beginning in elementary and continuing through secondary school; diagnosis of problems relating to strings, woodwinds, brasses, percussion.

733. MUSIC ADMINISTRATION AND CURRICULUM. 3 hours. Prerequisite: Undergraduate requirements in education, Music 312 and 313. *Mr. Newman.*
Development of music curriculum as part of general education planning; evaluation of school curricula and how music can become a functional part; problems in music administration, personnel, finance, equipment.

734. CHORAL MUSIC MATERIALS. 3 hours. Prerequisite: Music 312 and 313. *Mr. Leonard* or *Mr. Newman.*

Study and evaluation of music literature available for use in public school at all levels of instruction; research in various mediums and schools of composition which can be adapted for school use.

735. INSTRUMENTAL MUSIC MATERIALS. 3 hours. Prerequisite: Music 312 and 313. *Mr. Newman.*

Evaluation of materials available at all levels of instruction for band, orchestra and chamber music; research in materials of various mediums and schools of composition which can be adapted for school use.

APPLIED MUSIC

(Primarily for Music Majors)

The following courses are offered to enable the talented students who wish to devote a large amount of time to practical work to earn a limited amount of credit. Transfer credits will be accepted tentatively but must be validated by examination or by completion of advanced work in residence.

Before registering for Applied Music courses students must consult with the Head of the Music Department.

Music 191, 192, 193, 293, and 294 may be taken only by students working toward the B.M. degree. Lessons are offered in piano, organ, voice, violin, viola, violincello, double bass, flute, oboe, clarinet, saxophone, bassoon, French horn, trumpet, trombone, baritone, tuba, and percussion.

Laboratory fees vary from $20 to $70 for the following courses:

171. APPLIED MUSIC. 2 hours (6 hours per year). Two half-hour private lessons a week for three quarters. Laboratory fee course.

172. APPLIED MUSIC. 2 hours (6 hours per year). Prerequisite: Music 171. Two half-hour private lessons a week for three quarters. Laboratory fee course.

185. APPLIED MUSIC. 1 hour (3 hours per year). One half-hour private lesson a week for three quarters. Laboratory fee course.

186. APPLIED MUSIC. 1 hour (3 hours per year). Prerequisite: Music 185. One-half hour lesson a week for three quarters. Laboratory fee course.

187. APPLIED MUSIC. 1 hour (3 hours per year). One half-hour lesson a week for three quarters. Laboratory fee course.

188. APPLIED MUSIC. 1 hour (3 hours per year). Prerequisite: Music 187. One-half hour lesson a week for three quarters. Laboratory fee course.

191. APPLIED MUSIC. 4 hours (12 hours per year). two half-hour private lessons a week for three quarters. Laboratory fee course.

192. APPLIED MUSIC. 4 hours (12 hours per year). Prerequisite: Music 191. Two half-hour private lessons a week for three quarters. Laboratory fee course.

273. APPLIED MUSIC. 2 hours (6 hours per year). Prerequisite: Music 172. Two half-hour private lessons a week for three quarters. Laboratory fee course.

274. APPLIED MUSIC. 2 hours (6 hours per year). Prerequisite: Music 273. Two half-hour private lessons a week for three quarters. Laboratory fee course.

287. APPLIED MUSIC. 1 hour (3 hours per year). Prerequisite: Music 186. One half-hour lesson a week for three quarters. Laboratory fee course.

288. APPLIED MUSIC. 1 hour (3 hours per year). Prerequisite: Music 287. One half-hour private lesson a week for three quarters. Laboratory fee course.

289. Applied Music. 1 hour (3 hours per year). Prerequisite: Music 188. One half-hour private lesson a week for three quarters. Laboratory fee course.

290. Applied Music. 1 hour (3 hours per year). Prerequisite: Music 289. One half-hour private lesson a week for three quarters. Laboratory fee course.

293. Applied Music. 4 hours (12 hours per year). Prerequisite: Music 192. Two half-hour private lessons a week for three quarters. Laboratory fee course.

294. Applied Music. 4 hours (12 hours per year). Prerequisite: Music 293. Two half-hour private lessons a week for three quarters. Laboratory fee course.

785, 786, 787. Applied Music. 1 hour (3 hours per year). Applied music for graduate students in Music Education.

ENSEMBLE COURSES

A maximum of six hours in ensemble courses is allowed toward graduation.

387. University Civic Symphony Orchestra. 6 hours. (1 hour per quarter). Two hours per week for two years. Open to students who can qualify for symphony orchestra. *Mr. Main.*

388. University Chorus. 6 hours. (1 hour per quarter). Three hours per week for two years. Open to students who can qualify for serious choral study. *Mr. Hodgson.*

390. University Band. 6 hours (1 hour per quarter). Four hours per week for two years. Open to students who can qualify and who will give this time in addition to the time credited to military science. *Mr. Dancz.*

COURSES COMBINED WITH OTHER COURSES

451. Music and Literature. *Mr. Brown.*

A comparative study of the forms, relationships, and aesthetics of music and literature. Admission by consent of the instructor.

GRADUATE COURSES

736. Editing and Arranging. 3 hours. Prerequisites: Music 375. *Mr. Mitchell.*

Evaluation of representative instrumental and vocal published scores. A study of how to adapt them to specific groups; transcription for large or small ensembles; studies in timbre, color, qualities, etc. of instruments and voices; arranging accompaniments.

737. Score Analysis. 3 hours. Prerequisites: Music 136, 370. *Mr. Main* and *Mr. Mitchell.*

Learning techniques of harmonic and formal analysis and preparation of scores for rehearsal.

738. Advanced Conducting. 3 hours. Prerequisites: Music 363, 370. *Mr. Dancz* and *Mr. Main.*

Developing conducting technique in rehearsing laboratory; survey and evaluation of materials on conducting.

777. Applied Music. 5 to 10 hours. Open to piano or voice graduates by consent of Head of the Department. Preparation of recital program, intensive study of repertoire, and preparation of recommended works for public performance.

875. Research Seminar. 5 or 10 hours. Admission by consent of the Head of the Department.

878. Seminar in Sacred Music Literature. 5 or 10 hours. Prerequisites: ten hours of senior division music literature courses. *Mr. Hodgson, Mr. Mitchell.*

Historical development of the large forms of sacred music; the oratorio, the cantata, the passion. Study of the literature.

879. Advanced Composition. 5 or 10 hours. Prerequisite: Music 478. Use of various forms. Public performance of major original composition in large form. *Mr. Main.*

880. The Symphony after Beethoven. 5 to 10 hours. Prerequisites: Ten hours of senior division music literature courses. *Mr. Hodgson, Mr. Mitchell.*

Historical development of the symphony. Study of important scores. Analysis of masterpieces for the orchestra. Study of orchestral development.

NURSING

Students interested in working for a Bachelor of Science in Nursing degree are referred to the Dean of Nursing, Medical College of Georgia, Augusta, Georgia. The program earlier carried at the University of Georgia has been transferred to the Medical College of Georgia. Pre-Nursing courses, when approved by the Dean of Nursing, may be taken at the University of Georgia.

PHILOSOPHY AND RELIGION

(Meigs Hall, North Campus)

Head: Ayers. Philosophy Staff: Gotesky and Levison.

PHILOSOPHY

104. Introduction to Philosophy. *The Staff.*

The fundamentals of philosophy, the meaning and function of philosophy, the vocabulary and problems of philosophy, and the relation of philosophy to science, art, and religion. Includes a survey of the basic issues and major types in philosophy, and shows their sources in experience, history, and representative thinkers.

305. Ethics. *Mr. Levison.*

A study of moral philosophy in its bearing on human conduct and social relations, including an analysis of the nature and criteria of good and evil, right and justice, moral obligation and freedom. Issues of personal and social ethics are discussed in the light of readings in the classical moralists and in contemporary literature.

356. History of Philosophy, Ancient and Medieval. *Mr. Gotesky.* (Offered in alternate years. Offered in 1960-61).

An historical introduction to philosophy, tracing the development of European philosophy from the time of the early Greeks through the Renaissance.

357. History of Philosophy, Modern. Prerequisite: Philosophy 104 or 356 or consent of the instructor. *Mr. Gotesky.* (Offered in alternate years. Offered in 1960-61).

Traces the development of European philosophy up to the nineteenth centry.

358. Modern Logic. *Mr. Gotesky* and *Mr. Levison.*

A study of the principles and problems of critical thinking, especially of deductive reasoning, both sentential and class. Consideration is given to the more frequently used logical formulae; the uses of language, logical, emotional and volitional; the making of definitions; and the logical fallacies.

408. (Religion) Philosophy of Religion. *Mr. Levison.*

The branch of philosophy that inquires into the origin, nature, function, and value of religion; examines the source and validity of the claims which religion makes; studies the fundamental religious problems and concepts as they find expression in Western religious philosophies, such as Judaism, Catholicism, Protestantism, Modernism, Agnosticism, Ethical Idealism, and Humanism.

409. LITERATURE OF ANCIENT AND MEDIEVAL PHILOSOPHY. *The Staff.* (Offered in alternate years. Offered in 1961-62).

A course in the primary works of great philosophers of ancient and medieval times, especially the writings of Plato and Aristotle.

410. LITERATURE OF MODERN AND CONTEMPORARY PHILOSOPHY. Prerequisite: Philosophy 104 or 356 or consent of the instructor. *The Staff.* (Offered in alternate years. Offered in 1961-62).

Selected readings in important philosophers, modern and contemporary.

411. (ART) AESTHETICS. *Mr. Breithaupt* and *Mr. Gotesky.*

The philosophy of the beautiful and of aesthetic values in art, literature, music, or wherever found. An analysis of aesthetic experience and of aesthetic types. Covers the nature, origin, psychological and social foundations of art, both practical and fine. Particular emphasis is placed upon the role of social ideas and cultural circumstances in the growth and decline of the various arts.

450. CONTEMPORARY PHILOSOPHY. Prerequisite: At least one course in philosophy other than 358. *Mr. Gotesky.*

The third course in the History of Philosophy sequence, but may be taken independently. Selected readings in important philosophers of the 19th and 20th centuries, including such thinkers as Nietzsche, Mill, Marx, Spencer, Bergson, James, Royce, Dewey, Whitehead, and Santayana. The program is left flexible to allow for the divergent interests and needs of students and to permit consideration of significant current material.

458. ADVANCED LOGIC. Prerequisite: Philosophy 358. *Mr. Gotesky.*

An advanced course dealing with both traditional and modern methods in logic, especially the contributions of symbolic and mathematical logic.

459. LOGIC OF INDUCTION. *Mr. Gotesky.*

A study of the methods, principles, and problems of inductive reasoning, including the nature of probable inference, techniques of verification, and the structure of scientific explanation.

For descriptions of the following courses in Political Philosophy, refer to the offerings in Political Science.

485. (POLITICAL SCIENCE) POLITICAL PHILOSOPHIES OF ANCIENT, MEDIEVAL, AND EARLY MODERN TIMES. *Mr. Parthemos.*

486. (POLITICAL SCIENCE) POLITICAL PHILOSOPHIES OF RECENT TIMES. *Mr. Parthemos.*

RELIGION

400. HISTORY OF RELIGION. *Mr. Ayers.*

It is the aim of this course to survey the nature of early and primitive religions and to cover the main outlines of the chief living religions of the world. The method will be both historical and analytical.

410. OLD TESTAMENT LITERATURE. *Mr. Ayers.* (Offered in 1961-62).

A study of the nature, content, and problems of Old Testament literature, with attention given to historical data, literary forms, and outstanding personalities.

411. NEW TESTAMENT LITERATURE. *Mr. Ayers.* (Offered in 1961-62).

A study of the nature, content, and problems of New Testament literature, with particular attention given to (1) the political, social, and religious background of Judaism, out of which Christianity sprang; (2) the life of Jesus; (3) the immediate foreground of an expanding church.

430. PERSONALTIES OF THE OLD TESTAMENT. *Mr. Ayers.* (Offered in 1960-61).

A study of the development of Hebrew religion from its early, more primitive stages to the high point attained in the social, ethical, and spiritual teachings of the great writing prophets of Israel.

440. THE TEACHINGS OF JESUS. *Mr. Ayers.* (Offered in 1960-61).

Although primarily a study of what Jesus taught, attention is given to the literary and environmental background of his teaching, the historical life of the teacher, and the contemporary validity of what he taught.

For the convenience of the students, courses approved for transfer credit when taken at the Christian College of Georgia are listed below. A maximum of 15 *hours may be transferred. Each course carries* 5 *hours of credit. Classes are held at the Christian College,* 220 *South Hull Street.*

320. Religion in America. *Mr. Dowdy.* (Offered in 1960-61).

The rise and development of organized religion in the United States from the Colonial period to the present; principally a study of American Catholicism, Judaism and Protestantism and their significance as a major factor in the development of American life.

330. The Religious Thought of the Bible. *Mr. Dowdy.* (Offered in 1961-62).

The leading religious ideas of both the Old and New Testaments; their rise and development; and their importance to Hebrew-Christian religion.

331. The Johannine Books of the New Testament. *Mr. Dowdy.* (Offered in 1961-62).

The Gospel, Letters, and Revelation of John, including the critical problems dealing with these books, with major emphasis on their content and religious value for Christians of the first century and today.

332. The Life and Letters of Paul. *Mr. Dowdy.* (Offered in 1961-62).

An historical-exegetical study of the life and letters of Paul; the relationship between Acts and the Pauline Epistles, early non-Pauline Gentile Christianity, the Pauline theology and its lasting impression on Christianity.

341. The Origin and Development of Christianity to 1500 A. D. *Mr. Dowdy.* (Offered in 1960-61).

Historical and social background of the rise of Christianity; and a study of the interrelation between Christianity and Western Civilization during the periods of early and medieval Christianity.

350. Religion During the Reformation and Modern Periods. *Mr. Dowdy.* (Offered in 1960-61).

A socio-historical presentation of the development of Christianity in the reformation and modern periods in Europe; Christianity's relation to the growth of Western Civilization.

PHYSICS AND ASTRONOMY**

(Physics Building, South Campus)

Acting Head: Rayburn. Staff: Cooper, Dixon, Henkel, Henry, Rives, Sears, Steuer, Thompson.

ASTRONOMY

391. Descriptive Astronomy. Prerequisite: Physical Science 101 or Physics 120 or equivalent. Four lecture and one two-hour laboratory periods per week. *Mr. Dixon.*

This course is designed for the general student who desires to acquaint himself, or herself, with the stars, the members of the solar system, their motions and constitution. The laboratory and observing work of this course includes exercises with the celestial globe, star maps, and the plotting hemisphere. Observations will be made with a six-inch telescope and a classroom planetarium. Latitude and longitude will be measured.

PHYSICAL SCIENCE

101. Physical Science. No credit will be allowed for Physical Science 101 if a student shows credit for Physics 120. *The Staff.*

A survey, the objectives of which are: (1) to give an elementary knowledge of the most fundamental facts, laws, theories, and hypotheses of physics and astronomy and the main practical application of these sciences in our daily lives; (2) to give some idea of the meaning and value of the scientific method and how physical science has modified man's ways of thinking and manner of living.

**Students may be held responsible for breakage in laboratory courses.

PHYSICS

120. PHYSICS SURVEY. Not open to students who have credit for Physical Science 101. Four lectures and one two-hour laboratory period. *The Staff.*

An elementary study of the fundamentals of physics with a study of some of the simpler applications of physics. The laboratory period of two hours a week will be devoted to measurements designed to give an introduction in laboratory methods.

127. GENERAL PHYSICS—MECHANICS. Four hours of recitation and two hours of laboratory work. Prerequisites: Mathematics 100-101. *The Staff.*

An introductory course that deals with the fundamental laws of mechanics.

128. GENERAL PHYSICS—HEAT, SOUND, AND LIGHT. Four hours of recitation and two hours of laboratory work. Prerequisites: Physics 127. *The Staff.*

An introductory course dealing with the fundamental laws of heat, sound, and light.

137. GENERAL PHYSICS—MECHANICS. No credit will be allowed for Physics 137 if credit is shown for Physics 127. Four hours of recitation and two hours of laboratory work. Prerequisites: Mathematics 254. Corequisite: Mathematics 255. *The Staff.*

Fundamental laws of mechanics. The calculus is used as a mathematical tool in order to lead to a better understanding of the physical principles studies.

138. GENERAL PHYSICS—HEAT, SOUND, AND LIGHT. No credit will be allowed for Physics 138 if credit is shown for Physics 128. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 137. *The Staff.*

Fundamental laws of heat, sound, and light. The calculus is used as a mathematical tool in order to lead to a better understanding of the physical principles studied.

229. GENERAL PHYSICS—ELECTRICITY, MAGNETISM AND MODERN PHYSICS. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 128. *The Staff.*

Fundamental laws of electricity and magnetism. Some of the newest developments in the general field of physics are discussed.

239. GENERAL PHYSICS—ELECTRICITY, MAGNETISM, AND MODERN PHYSICS. No credit will be allowed for Physics 239 if credit is shown for Physics 229. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 138. *The Staff.*

Fundamental laws of electricity and magnetism. Some of the newest developments in the general field of physics are also discussed. The calculus is used as a mathematical tool in order to lead to a better understanding of the physical principles studied.

332. EXPERIMENTAL ELECTRICITY AND MAGNETISM. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 229, Mathematics 254 and Mathematics 255. *Mr. Dixon.*

An intermediate course in electrical and magnetic measurements.

333. LIGHT. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 229, Mathematics 254 and Mathematics 255. *Mr. Cooper.*

An intermediate course stressing experimental work on reflection, refraction, interference, diffraction, and polarization of light.

334. ADVANCED HEAT. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 229, Mathematics 254 and Mathematics 255. *Mr. Henry.*

The material in this course includes temperature and its measurement, specific heats, thermal expansion, transfer of heat by conduction, convection and radiation, the states of matter, elementary thermodynamics, production of high and low temperatures.

372. NUCLEAR RADIATIONS. Four hours of recitation and two hours of laboratory work. Prerequisites: Physics 229, Mathematics 254, and Mathematics 255. *Mr. Rayburn, Mr. Steuer,* or *Mr. Thompson.*

An intermediate course dealing with some of the recent developments in physics.

380. ELECTRONICS. Three hours of recitation and four hours of laboratory work. Prerequisites: Physics 332. *Mr. Dixon.*

An introduction to the theory and applications of basic electronic devices.

404, 405. THEORETICAL MECHANICS. Four hours each. Four hours of recitation per week. Prerequisite for 404: Physics 229. Corequisite for 404: Mathematics 401. *The Staff.*

These courses develop within the framework of Newtonian principles: Statics, kinematics and dynamics of a particle and of systems of particles, mechanics of continuous media, and Lagrange's equations.

406. VIBRATION AND SOUND. No credit will be allowed for Physics 406 if credit is shown for Physics 345. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 404. *The Staff.*

The production, transmission, reflection, absorption, and the general effects of vibration and sound.

420, 421. ELECTRICITY AND MAGNETISM. Four hours each. No credit will be allowed for Physics 420 if credit is shown for Physics 471. Four hours of recitation per week. Prerequisites for 420: Physics 332 and Mathematics 401. *The Staff.*

Beginning with the experimentally determined laws of Coulomb, Ampere, Biot-Savart, Faraday, and others the fundamental methods of Gauss and Stokes will be applied to develop logically the complete theory as embodied in Maxwell's equations.

430. THERMODYNAMICS. No credit will be allowed for Physics 430 if credit is shown for Physics 434. Five hours of recitation per week. Prerequisite: Physics 334. Corequisite: Mathematics 457. *The Staff.*

The laws of thermodynamics and their application to the fundamental concepts of physics.

431. KINETIC THEORY AND STATISTICAL MECHANICS. Five hours of recitation per week. Prerequisites: Physics 404 and Physics 430. *The Staff.*

An introduction to the study of statistical mechanics and its application to the study of gases.

440. METHODS OF THEORETICAL PHYSICS. No credit will be allowed for Physics 440 if credit is shown for Physics 401. Five hours of recitation per week. Prerequisite: Physics 404. *The Staff.*

The application of advanced mathematics to the solution of the ordinary and partial differential equations encountered in courses in advanced physics. Some of the subjects studied are: Fourier series, Bessel functions, Legendre Polynomials, and solutions of the wave equation, Laplace's equation, and other linear partial differential equations in different coordinate systems.

450. ATOMIC PHYSICS. No credit will be allowed for Physics 450 if credit is shown for Physics 481. Four hours of recitation and two hours of laboratory per week. Prerequisites: Physics 333 and Physics 404. *The Staff.*

This course develops atomic theory as may be determined from optical and X-ray spectra and the interaction of atoms with electric and magnetic fields. Atomic spectra will be interpreted with the aid of Schrodinger's wave equation.

472, 473. NUCLEAR STRUCTURE. 4 hours each. Four hours of recitation per week. Prerequisite for 472: Physics 450. *Mr. Rayburn, Mr. Steuer,* and *Mr. Thompson.*

Introduction to the theory of nuclear structure as it has been inferred from quantum mechanical considerations and the study of experimental data on radioactivity and nuclear reactions.

482, 483. SOLID STATE PHYSICS. 4 hours each. No credit will be allowed for Physics 482 if credit is shown for Physics 491. Four hours of recitation per week. Prerequisites for 482: Physics 404; Physics 430 desirable. *The Staff.*

Elastic, electrical, magnetic, and thermal properties of solids. Covers such topics as: crystal structure, X-ray and neutron diffraction, elasticity, crystal imperfections, thermal and electrical conduction, spin resonance, the photo-electric effect, and transistor theory.

529. ELECTRICITY, MAGNETISM, ELECTRONICS AND RADIOACTIVITY. Four lecture and discussion and one two-hour laboratory period per week. Prerequisites: 10 hours of physics (or the equivalent) and 20 hours of physical science (physics, chemistry, mathematics, geology and astronomy). *Mr. Dixon* and *Mr. Sears.*

This course is designed to aid the elementary physics teacher in dealing with problems in electricity, magnetism, electronics, and radioactivity which arise in his teaching. The factors involved in effective presentation of physical concepts in these areas will be emphasized.

591. ASTRONOMY FOR TEACHERS. Not open to students with credit in Astronomy 391. Four hours of recitations and two hours of laboratory per week. Prerequisites: 10 hours of physics and 20 hours of physical science (physics, chemistry, geology, mathematics, and astronomy). *Mr. Dixon* and *Mr. Sears.*

Discussions, lectures, and laboratory exercises focused on the problems that are involved in science teaching in the secondary schools relative to astronomical concepts and procedures.

810, 811, 812. QUANTUM MECHANICS. 3 hours each. No credit will be allowed for Physics 810 if credit is shown for Physics 806. Three hours of recitation per week. Prerequisites for 810: Physics 621 and Physics 819. *The Staff.*

Basic principles of quantum theory, wave mechanics, and the application of these principles to problems in modern physics.

817, 818, 819. ADVANCED ANALYTICAL MECHANICS. 3 hours each. No credit will be allowed for Physics 817 if credit is shown for Physics 805. Three hours of recitation per week. Prerequisites for 817: Physics 604 and Physics 605. *The Staff.*

Systems of particles, D'Alembert's principle, principle of least action, Hamilton's principle, generalized coordinates, Poisson brackets, and the Hamilton-Jacobi equation.

830, 831, 832. STATISTICAL MECHANICS. 3 hours each. Three hours of recitation per week. Prerequisite for Physics 830: Physics 810. *Mr. Henkel.*

A study of the basic theory of statistical mechanics and its applications to the solution of some fundamental problems in physics.

850, 851, 852. MOLECULAR SPECTRA AND STRUCTURE OF DIATOMIC AND POLYATOMIC MOLECULES. 3 hours each. No credit will be allowed for Physics 850 if credit is shown for Physics 800. Three hours of recitation per week. Prerequisites for 850: Physics 650; Physics 810 desirable. *Mr. Cooper* and *Mr. Sears.*

A study of the structure of molecules as may be determined from their rotational, vibrational, and electronic spectra. The theory of molecular spectra will be presented for diatomic and selected polyatomic molecules.

855, 856. INFRARED SPECTROSCOPY. 3 hours each. No credit will be allowed for Physics 855 if credit is shown for Physics 802. Three hours of recitation per week. Prerequisite for 855: Physics 650. *Mr. Sears.*

A study of the origin of infrared spectra in polyatomic and polymeric molecules. Infrared spectrophotometer instrumentation, infrared determination of molecular structure, qualitative analysis, and quantitative analysis of organic compounds will be treated.

873, 874, 875. NUCLEAR THEORY. 3 hours each. No credit will be allowed for Physics 873 if credit is shown for Physics 872. Three hours of recitation per week. Prerequisites for 873: Physics 673 and Physics 812. *Mr. Rayburn, Mr. Steuer,* or *Mr. Thompson.*

A course in advanced nuclear theory. Some of the topics covered are: Multipole radiations, polarization phenomena, resonance theory, and nuclear scattering phenomena.

POLITICAL SCIENCE

(LeConte Hall, North Campus)

Head: Pound. Staff: Askew, *Collins, Gibson, Heffernan, Hughes, Moran, Parthemos, Range, Saye, Shadgett.

*On leave.

AMERICAN GOVERNMENT AND AMERICAN CONSTITUTIONAL LAW

101. AMERICAN GOVERNMENT. *Mr. Pound* and *the Staff*.

An introductory course covering the essential facts of federal, state, and local governments in the United States. Prerequisite for advanced courses in political science. A satisfactory grade will exempt a student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

202. AMERICAN GOVERNMENT. Prerequisite: Political Science 101. All students who expect to major in political science are advised to take this course. *Mr. Gibson, Mr. Parthemos,* and *Mrs. Shadgett.*

A continuation of Political Science 101 with emphasis on the internal organization and actual workings of the various departments of our national government.

410. AMERICAN POLITICAL PARTIES. *Mr. Pound.*

A study of the influence of political parties on the governmental organization and on the history and political thought of the United States.

483. AMERICAN CONSTITUTIONAL LAW. *Mr. Saye.*

A study of the fundamenal principles of constitutional interpretation and practice in the United States through decisions and opinions of the Supreme Court.

484. AMERICAN CONSTITUTIONAL LAW. *Mr. Saye.*

A continuation of Political Science 483, with emphasis on recent Supreme Court decisions.

883-884. PROBLEMS OF CONSTITUTIONAL GOVERNMENT IN THE UNITED STATES. 5 hours for each course. *Mr. Pound, Mr. Saye.*

Courses designed to provide individual or small group instruction for graduate students who are interested in an extensive study of special problems of American government.

STATE AND LOCAL GOVERNMENTS

406. STATE GOVERNMENT. *Mr. Pound.*

A study of the forms of organization, the functions, and the operation of state governments of the United States with particular emphasis on the government of the State of Georgia. Exempts the student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

468. CITY AND COUNTY GOVERNMENT. *Mr. Askew.*

Organization and operation of city and county governments in the United States. Political aspects of these governments and techniques of citizen participation. Students will become familiar with the actual workings of city and county governments in Georgia through field trips and field studies.

885-886. READINGS AND RESEARCH IN PROBLEMS OF GOVERNMENT IN GEORGIA. 5 hours for each course. *Mr. Pound, Mr. Saye.*

Courses designed to provide individual instruction for graduate students in an intensive study of special problems of Georgia government.

POLITICAL THEORY

408. AMERICAN POLITICAL THOUGHT TO 1800. *Mr. Pound.*

A study of the political theory of the colonial period, the American Revolution, and the theories of the Convention of 1787 and the early interpretation of the Constitution. Political Science 408 and 409 form a natural sequence, though either or both may be elected. Where the student takes the entire sequence, it is dsirable to take Political Science 408 first.

409. AMERICAN POLITICAL THOUGHT SINCE 1800. *Mr. Pound.*

A study of the theories as to the nature of the Union, slavery, Civil War, Reconstruction, and the contemporary United States.

485. POLITICAL PHILOSOPHIES OF ANCIENT, MEDIEVAL, AND EARLY MODERN TIMES. *Mr. Parthemos.*

An historical study of the development of ideas relative to the state and government in ancient, medieval, and early modern times. Attention is directed primarily to the political thought of a selected group of eminent philosophers including Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Bodin, Hobbes, and Locke.

486. POLITICAL PHILOSOPHIES OF RECENT TIMES. *Mr. Parthemos.*

This course forms a sequence to Political Science 485. Either of the courses may be taken separately, but since emphasis is given to the growth of political thought, it is preferable to take the early period first.

COMPARATIVE GOVERNMENTS AND INTERNATIONAL RELATIONS

307. EUROPEAN GOVERNMENTS. *Mr. Askew.*

The principles and forms of organization of the governmental systems of Europe.

311. THE GOVERNMENTS OF LATIN AMERICA. *Mrs. Shadgett.*

A study of the principles and forms of organization of the governments of Latin America.

351. GOVERNMENT AND POLITICS OF BRITAIN. *Mr. Askew.*

The structure and functioning of British government. Policy and administration in several fields of national and international importance will be studied.

412. THE GOVERNMENT OF THE SOVIET UNION. *Mr. Range.*

A study of the government of the Soviet Union. Emphasis will be placed on the fundamental principles upon which this government is founded and the machinery by which these principles are effected.

415. THE GOVERNMENTS OF THE FAR EAST. *Mr. Range.*

The structure, principles, and practices of political parties and governments of the Far East with particular emphasis on China and Japan.

420. INTERNATIONAL RELATIONS. *Mr. Range.*

An introductory study of the forces and practices dominating contemporary international political relations.

421. INTERNATIONAL ORGANIZATION. *Mr. Range.*

The principles, organizations, and functions of international governmental organizations such as the United Nations, Organization of American States, Council of Europe, the Specialized Agencies, the international judiciary, etc.

424. (LAW) INTERNATIONAL LAW. 4 hours. *Mr. Cohn.*

Selected topics on international law; its nature, development and relation to municipal law; sovereignty, birth, recognition and death of nations; continuity of state personality; succession, domain, nationality; international cooperation and adjustment of differences under special consideration of the Charter of the United Nations.

481. POLITICAL INSTITUTIONS. *Mr. Askew.*

The nature and functioning of political institutions such as constitutions, legislative bodies, executive offices, and their strength and weaknesses in the maintenance of constitutional government.

PUBLIC ADMINISTRATION

434. (ECONOMICS) PUBLIC FINANCE. *Mr. Ellis.*

A general consideration of American public expenditures, revenues and fiscal administration.

441. (ECONOMICS) PRINCIPLES OF PUBLIC ADMINISTRATION. *Mr. Gibson* and *Mr. Hughes.*

General principles and problems of administrative organization, relationships, and controls in the United States. Problems of personnel, finance, administrative law, and the growth and significance of administrative legislation and adjudication. The administrative process is considered in its democratic setting as it is influenced by political and social beliefs, legislatures, and pressure groups.

442. (ECONOMICS) PUBLIC PERSONNEL ADMINISTRATION. *Mr. Gibson* and *Mr. Hughes.*

Procedures, and problems of governmental personnel administration. Human relations aspects. Field trips and field studies of governmental agencies are employed to give the students first hand knowledge of governmental personnel administration.

443. (ECONOMICS) PUBLIC FINANCE ADMINISTRATION. *Mr. Gibson* and *Mr. Hughes.*

Activities involved in the collection, custody and expenditure of public revenue, namely: the assessment and collection of taxes, public borrowing and debt administration, the preparation and enactment of the budget, financial accountability and the audit.

444. (ECONOMICS) GOVERNMENT AND BUSINESS. *Mr. Smith.*

A general survey of the economic aspects of business regulations by the government, with special reference to regulatory developments and methods in the United States; other activities affecting business in general, such as extension of loans and subsidies, maintenance of fact-finding agencies and government-owned corporations.

492. (ECONOMICS) ADMINISTRATIVE LAW. *Mr. Saye.*
The legal principles and practical doctrines involved in the work of administrative agencies vested with quasi-legislative or quasi-judicial powers.

PSYCHOLOGY

(Meigs Hall, North Campus, unless otherwise specified)

Head: James. Staff: Enneis, Gray, Hammes, Hodge, Melton, Osborne, Peacock, Young.

All courses in the Psychology Department are in the Biological Science Division except Psychology 101, 371, 373, 414, 440, 464, 582, 586, 587, 592, 593, and 594, which are in the Social Science Division. Psychology 101 is a prerequisite to all other courses in Psychology except Psychology 258. It is recommended that no freshman be registered for psychology during his first quarter. Psychology 322 is required of all psychology majors.

99. READING AND STUDY SKILLS. No credit. Five class meetings including two hours individual practice. *Mr. Melton.*
A non-credit course designed for improving reading skills to a level adequate for college study. Includes study and practice of: comprehension of varied materials; adapting speed of reading to purpose and materials; vocabulary skills; and efficient use of study time.

101. ELEMENTARY PSYCHOLOGY. *Staff.*
A beginning course in psychology, given without laboratory experiments. It includes the fundamental facts and laws of psychology and indicates something of the various problems and fields of psychology, its relation to other fields, and some of the more important applications of psychology.

258. THE PSYCHOLOGY OF ADJUSTMENT. *Mr. Hammes.*
A course in mental hygiene, dealing with the appropriate and inappropriate reactions to frustration and stress. Solutions of conflicts, fears, and anxiety. Building emotional stability and preventing mental illness.

295. INTRODUCTION TO CHILD DEVELOPMENT. (see Home Economics 295.)

322. EXPERIMENTAL PSYCHOLOGY. Three periods for discussion, demonstration, and lecture and two double laboratory periods. *Mr. Hodge.*
An introduction to experimental methodology in the study of behavior. Both individual and group experiments are conducted to illustrate psychophysics, psychological scaling techniques, and the principles of experimental design. Some familiarity with elementary statistics is recommended.

371. APPLIED PSYCHOLOGY. *Mr. Gray* or *Mr. Enneis.*
A survey of the applications of the principles of psychology to social, professional, industrial, and educational fields.

373. SOCIAL PSYCHOLOGY (SOCIOLOGY). 3 hours. *Mr. Enneis.*
The social aspects of psychology: the origin and development of social behavior, interaction of individuals within groups, social motivation, suggestion, and attitudes. Methods of research in social psychology with special attention to use of experimental techniques.

374. GENETIC PSYCHOLOGY. *Miss Young.*
The evolution of structure and behavior. The problems of childhood, maturity, and senescence as integral parts of the life cycle are given careful study.

Unless otherwise stated, ten senior division credit hours in psychology are prerequisite to the following courses, for graduate credit.

403. TEST CONSTRUCTION. 3 hours. Prerequisite: Mathematics 356 or equivalent. *Mr. Enneis.*
Theory of psychological measurement, criterion development, concepts and methods of determination of reliability and validity writing of test items.

404. SURVEY OF HISTORY AND SYSTEMATIC PSYCHOLOGY. 3 hours. Prerequisite: 5 additional hours credit in senior division courses in psychology. *Mr. Peacock.*
An overview of the history of psychology and recent systematic development.

414. PSYCHOLOGY OF PERSONNEL—AN INTRODUCTION. *Mr. Gray.*
A survey of the entire area of personnel psychology applied to the fields of business, industry and government.

415. PSYCHOMETRICS. *Mr. Osborne.*

A course designed to give the student an introduction to the essentials of psychological testing with experience in administering, scoring, and interpreting tests including those of scholastic achievement, mental ability, scholastic aptitude, interest and personality.

416. INDIVIDUAL PSYCHOLOGICAL TESTING: WECHSLER-BELLEVUE METHOD. 3 hours, Prerequisite: Psychology 415. *Mr. Osborne.*

Training in the administration, scoring and interpretation of the Wechsler Scales. All students are required to achieve a minimum competency in the use of these scales for both children and adults but the major part of the practical work may be in the age range selected by the student.

418. INDIVIDUAL PSYCHOLOGICAL TESTING: TERMAN-MERRILL SCALES. 2 hours. Prerequisite: Psychology 415. *Mr. Osborne.*

Training in the administration, scoring and interpretation of the Terman-Merrill revision of the Binet Scales. All students are required to achieve a minimum competency in the use of these scales for both children and adults but the major part of the practical work may be in the range selected by the student.

419. INTRODUCTION TO PROJECTIVE TECHNIQUES: RORSCHACH METHOD. 3 hours. Prerequisites: Psychology 415, 416, and 423. *Mr. Osborne.*

An introduction to the theory, administration, scoring and interpretation of Rorschach Method. The class is limited and is open only to advanced students with adequate background in psychological measurement and theory of personality. Registration only by permission of the instructor.

420. INTRODUCTION TO PROJECTIVE TECHNIQUES: THEMATIC APPERCEPTION TEST. 2 hours. Prerequisites: Psychology 415, 416, and 423. *Mr. Osborne.*

An introduction to the theory, administration, scoring, and interpretation of the Thematic Apperception Test. The class is limited and is open only to advanced students with adequate background in psychological measurement and theory of personality. Registration only by permission of the instructor.

423. PSYCHOLOGY OF THE ABNORMAL. Lectures, discussions and clinical work. *Miss Young.*

The study of the various forms of mental illness and maladjustment, including mental deficiency, and anti-social behavior. The course is planned especially for students going into clinical psychology, medicine, nursing, social work, or special types of educational work.

440. SOCIAL PSYCHOLOGY: ATTITUDE MEASUREMENT (SOCIOLOGY). 2 hours. Prerequisite: Mathematics 356 or equivalent. *Mr. Enneis.*

Theories and methods of construction of attitude scales: This will consist of an examination of the assumptions and procedures involved in the Thurstone, Likert, and Guttman scaling techniques.

451. THEORIES OF PERSONALITY. *Mr. Gray.*

The biological and psychological foundations of personality will be studied. Emphasis will be placed on the integrared aspects of personality.

452. THEORIES OF MOTIVATION. 2 hours. *Mr. Hammes.*

Cognitive and neurological theories of motivation. Current experimental research in the area of motivation.

453. INDIVIDUAL DIFFERENCES. 3 hours. Prerequisite: Mathematics 356 or equivalent. *Mr. Enneis.*

The nature and interrelationships of psychological traits; the relationships between behavioral and structural characteristics; theories of constitutional types; the distribution of individual differences; effects of heredity, growth, and training.

456. PSYCHOLOGY OF SENSATION. 2 hours. Prerequisite: Psychology 322. *Mr. Peacock.*

The visual, auditory, olfactory, gustatory, cutaneous, kinaesthetic, and vestibular senses are investigated. Sensory thresholds are examined by psychophysical methods, supplemented by an analysis of neurological theory.

457. PSYCHOLOGY OF PERCEPTION. 3 hours. Prerequisite: Psychology 322. *Mr. Hammes.*

The phenomena of attention, apprehension, apparent movement, perceptual closure, perceptual constancy, perceptual judgment, and time and space perception are investigated. Empirical and experimental demonstrations are conducted, followed by a study of the various theories of perception.

458. STATISTICS IN PSYCHOLOGICAL RESEARCH. 3 hours. Prerequisite: Mathematics 356 or permission of instructor. *Mr. Hodge.*

A study of the basic concepts and techniques in descriptive and sampling statistics. Applications of statistics in psychological research.

459. MENTAL HYGIENE. *Mr. Hammes* and *Miss Young.*

An advanced course dealing with mental hygiene problems, especially of children and adolescents; problems of different stages of maturation adjustments in the home, school and play group; and special needs in cases of retardation and delinquency.

462. CLINICAL PSYCHOLOGY. Prerequisites: At least one of the following courses: Psychology 423, 416 or 418. *Miss Young.*

This is an introductory course, with emphasis upon basic concepts and principles. The practical aspects will be related to the work of the University of Georgia Clinic, which will provide an opportunity for a study of behavior deviations found in children.

463. CLINICAL PSYCHOLOGY. Four hours of discussions and lectures, and two or three hours of clinical work. Prerequisite: At least two of the following courses: Psychology 416, 418, 423, 462, or permission of instructor. *Miss Young.*

An advanced course designed to give the student a greater understanding of the problems of human adjustment. Ethical and professional standards also will be considered. The practical aspects will be related to the work of the University of Georgia Clinic.

464. ADVANCED SOCIAL PSYCHOLOGY. 3 hours. Prerequisite: Psychology 373. *Mr. Ennis.*

Development and importance of language and communication in social behavior; concepts and methods of studying decision-making; the role of motivation, frustration, and conflict in social processes.

480. PHYSIOLOGICAL PSYCHOLOGY. 3 hours. Prerequisites: 10 hours in biology. *Mr. James.*

In this course the personality is viewed as the integration of the morphological, physiological, and psychological aspects of the organism. The relationship between the internal environment and such behaviors as food intake control; mating behavior; neural action; emotion; hybernation; sleep and activity; etc.

481. COMPARATIVE PSYCHOLOGY. 3 hours. Prerequisite: 10 hours in biology. *Mr. James.*

The course begins with an analysis of the structure and behavior of the amoeba and continues on through the animal series to man. The integration of structure, physiological processes and behavior are emphasized throughout the course, resulting in a more thorough understanding of the adjustment processes.

490. DEVELOPMENT OF THE YOUNG CHILD. Three lectures and four laboratory periods in the Nursery School. *Miss McPhaul* and *Miss Young.*

A study of the physical, mental, emotional, and social development of the pre-school child, the environmental factors influencing the development of the young child, with emphasis upon techniques of guidance. Planned to meet requirements of teachers of home economics in high schools; desirable also for teachers of elementary grades.

582. (BUSINESS ADMINISTRATION). EMPLOYMENT METHODS: TESTING. 3 hours. Prerequisites: Statistics. *Mr. Gray.*

This course will consist of taking tests and interpreting the scores in reference to specific employment situations. The student will learn the values and limitations of tests, as well as how to validate them in new situations.

586. (BUSINESS ADMINISTRATION). JOB EVALUATION. 3 hours. Prerequisites: Statistics. *Mr. Gray.*

A study of various methods of Job Analysis and Job Evaluation. The advantages and disadvantages of the various systems in relation to the types of work situations are considered and actual jobs analyzed and evaluated.

587. (BUSINESS ADMINISTRATION). WORK AND EFFICIENCY. 3 hours. Prerequisites: Mathematics 356 or Economics 312. *Mr. Gray.*

A study of human aptitudes in relation to work and equipment design. Lighting, noise, ventilation, motor activities, body orientation, machine controls, etc. in relation to human limitations are studied.

592. (BUSINESS ADMINISTRATION). EMPLOYMENT METHODS: INTERVIEWING. 2 hours. Prerequisites: Statistics. *Mr. Gray.*

A study about employment interviewing as well as practice in both interviewing and being interviewed. The limitations of this procedure as a basis for critical decisions.

593. (BUSINESS ADMINISTRATION). WORK MEASUREMENT. 3 hours. Prerequisites: Mathematics 356 or Economics 312. *Mr. Gray.*

Methods of measuring work and the factors which affect the duration of work with special emphasis on standardized time tables. Principles of work methods and job layouts.

594. (Business Administration). Merit Rating. 2 hours. Prerequisites: Mathematics 356 or Economics 312. *Mr. Gray.*

Study ways of determining the worth of employees on jobs where quantitative measurement is impossible. Methods of determining traits for rating, of weighting traits, and of rating traits.

800. Seminar in Psychology. Non-credit. Prerequisite: Undergraduate major in Psychology. *Staff.*

Weekly meetings for the full year devoted to discussion of current literature and problems dealing with research in Psychology.

801. Advanced General Psychology. Prerequisite: Undergraduate major in Psychology. *Mr. Peacock.*

Advanced study of the topics of motivations and emotions with source material from the current literature.

802. Advanced General Psychology. Prerequisite: Undergraduate major in Psychology. *Mr. Peacock.*

Advanced study of the subjects of sensation, perception, learning, and intelligence with source material from the current literature.

805. Theories of Learning. *Mr. James.*

An analysis of the major theories of learning current among psychologists doing research in the field. A study of the connectionism of Thorndike, and the theories of Guthrie, Hull, Skinner, Kohler, Lewin, Wheeler, and Tolman. An attempt is made to determine the aspects common to all theories and to understand their differences. Experimental procedures used by each psychologist.

816. Psychology Seminar. 2-24 hours. Prerequisite: Undergraduate major in psychology or equivalent. *The Staff.*

860. Psychological Research Design and Analysis. Prerequisites: Psychology 322 and 458. *Mr. Hodge.*

A discussion of the assumptions and methods involved in the design and analysis of experiments.

892. (Home Economics) Behavior Problems in Children. Prerequisite: Psychology 490, Home Economics 490, or Education 452. *Miss Young* and *Miss Sheerer.*

The child's adjustment to his environment, with a consideration of the causes, treatment, and prevention of behavior problems. Utilization of case materials. Research problems in the field will be carried out by the student.

900. Special Problems. 3-30 hours. Prerequisite: Graduate standing in psychology. *The Staff.*

930. Thesis in Psychology. 5 to 50 hours. *The Graduate Staff.*

THE UNIVERSITY OF GEORGIA CLINIC

Florene M. Young, Director

The clinical work carried on by the Department of Psychology includes diagnostic and therapeutic services of a psychological nature.

The main purpose of the Clinic is to provide assistance to students who need or desire it, but a limited number of non-students may be scheduled. Those desiring services should apply to the Director.

The Clinic maintains close cooperation with the University physician and with local physicians, and collaborates with the Guidance center of the University.

RUSSIAN

(See Modern Foreign Language)

SOCIAL SCIENCE

(Academic Building, North Campus)

Given under the general direction of the Chairman of the Social Science Division.

104. CONTEMPORARY GEORGIA. *The Staff.*
A discussion and analysis of certain aspects of Georgia's population, its characteristics and trends; its relative standing in various statistical measures of economic and social wellbeing; its natural resources and economic accomplishments from the standpoint of agriculture, industry, and commerce; and its governmental organization and problems.

SOCIOLOGY AND ANTHROPOLOGY

(Academic Building, North Campus)

Head: Bowers. Staff: Belcher, Chambliss, Dean, Kellar, Kelly, Payne, Williams

105. INTRODUCTORY SOCIOLOGY. *The Staff.*
The study of organized social life in terms of interaction of heredity, physical environment, the group and culture. Emphasis on fundamental sociological concepts, methods, and data.

Note: All 400 and 500 courses have as a prerequisite Sociology 105 or the consent of the instructor.

SPECIAL FIELDS OF SOCIOLOGY

360. CONTEMPORARY SOCIAL PROBLEMS. *Miss Dean* and *Mr. Silverman.*
A study of both general and special problems of our times. The problems are considered in the social and cultural setting in which they occur. The emphasis is upon people and their behavior.

380. INDUSTRIAL SOCIOLOGY. *Mr. Bowers* and *Mr. Payne.*
A study of human relations in the industrial setting and the relationship of growing, operating or declining industrialization to the community and the larger society.

409. SOCIAL CHANGE. *Mr. Bowers.*
The nature and theories of social change; causes and types of social change; the cultural lag theory; the social effects of inventions in the modern world; the adjustments of contemporary social institutions to technological change; and some discussion of the impact of future technology on society.

427. PERSONALITY AND SOCIAL ADJUSTMENT. *Mr. Chambliss, Mr. Payne* and *Mr. Williams.*
Foundation and development of personality; mechanisms of integration and adjustment; roles of culture, groups and language; concepts of self; types and theories of personality; divergent personalities.

431. PRINCIPLES OF RURAL-URBAN SOCIOLOGY. *Mr. Belcher, Mr. Payne* and *Mr. Williams.*
The fundamental differences between rural and urban societies and the interrelationship between these two large groups of people. How personalities growing up in the different environments are affected, and some of the problems that arise because of the differences and conflicts between rural and urban interests.

433. POPULATION THEORY AND PROBLEMS. *Mr. Belcher.*
Theory and dynamics of population growth; population measure; migration; composition; differential fertility; theories of the quality and optimum population; economic and social aspects of our population.

435. COMMUNITY ORGANIZATION. *Mr. Payne* and *Mr. Williams.*
A study of the community as a unit of social organization; contemporary trends in contemporary organization and planning.

443. SOCIAL MOBILITY. *Mr. Bowers* and *Mr. Williams.*
The nature of social status systems, including the means by which people obtain and change their positions in the systems. Topics include: criteria of status, evaluation in various societies; social classes and castes, status symbol; differential life-chances in terms of prestige, privilege and power; "mobility ladders" and achievmeent aspirations; the extent and significance of social mobility in the world today.

461. (HOME ECONOMICS) THE FAMILY. *Mr. Chambliss.*
Family study from many different angles, utilizing data from the fields of anthropology, individual and social psychology, history, sociology, economics and psychiatry.

481. CRIMINOLOGY. *Mr. Payne.*
The study of criminal behavior and its treatment. The development of criminal behavior in contemporary society and the efforts of the individual to adjust to the demands made upon him. The treatment of the offender by means of probation, imprisonment, and parole.

SOCIAL THEORY AND RESEARCH METHODS

356. QUANTITATIVE METHODS IN SOCIOLOGY. *Mr. Belcher* and *Mr. Payne.*
An introduction to the scientific method in social research: elementary considerations in research design; the interview, questionnaire, participant observation and human document as sources of social data; qualitative and quantitative techniques of analysis and inference, including the development of techniques for measuring social data.

420. METHODS OF SOCIAL RESEARCH. *Mr. Belcher* and *Mr. Bowers.*
An introduction to the scientific method in social research; elementary considerations in research design; the interview, questionnaire, participant observation and human document as sources of social data; qualitative and quantitative techniques of analysis and inference, including the development of techniques for measuring social data.

421. EARLY SOCIAL THOUGHT. *Mr. Chambliss.*
A survey of social thought from Hammurabi to Comte. This course affords an introruction to social thought prior to the emergence of the modern social sciences.

422. DEVELOPMENT OF SOCIOLOGICAL THEORY. *Mr. Chambliss.*
A survey of some of the most important systems in the development of sociological theory.

426. AMERICAN SOCIOLOGY. *Mr. Williams.*
A complete coverage of the origin and development of sociology in the United States, from Ward to the present. Special emphasis is placed on the approaches to the subject and recent trends in the field will be studied and analyzed.

456. TECHNIQUES OF POPULATION ANALYSIS. *Mr. Belcher.*
Techniques for analyzing the composition of the population; constructing life tables; measuring vital processes; and estimating population and migration.

SOCIAL WORK

315. THE FIELD OF SOCIAL WORK. *Miss Dean.*
An introductory course to the various aspects of present-day social work. Considers family and children's services, behavior clinics and case work approach to social problems, the courts, probation and parole, medical social services, group work, community organization, public assistance, and social security. Class discussion and collateral reading.

470. INTRODUCTION TO PUBLIC WELFARE ADMINISTRATION. *Miss Dean.*
Historical development of public welfare services and their administration. Reference is made to the underlying problems with which present day public welfare departments deal; special attention is paid to administration at local, state, and federal levels.

552. PRINCIPLES AND METHODS OF SOCIAL CASEWORK. *Miss Dean.*
Methods, objectives, competencies, limitations of social casework in its varied settings. Cases studied include school, psychiatric, correctional, child welfare, family, and medical problems.

GRADUATE COURSES IN SOCIOLOGY

800. SPECIAL TOPICS IN SOCIOLOGY. Prerequisite: Undergraduate major in sociology. *The Staff.*
Opportunity to do intensive study, on an individual basis, in the field of the graduate student's major interest.

808. ADVANCED PRINCIPLES OF SOCIOLOGY. Prerequisite: Ten hours of courses in sociology numbered over 400. *Mr. Chambliss.*
A critical examination of the conceptual framework of sociology. Required of graduate students in sociology.

830. SURVEY RESEARCH METHODS IN SOCIAL SCIENCES. Two lectures and one three hour laboratory period per week. Prerequisite: Undergraduate major in a social science. *Mr. Bowers.*
Objectives, techniques and uses of the sample survey in social research as exemplified in public opinion studies, attitude and informative surveys, and the evaluation of institutional and community programs. Required of graduate students in sociology.

840. SEMINAR IN SOCIOLOGY AND ANTHROPOLOGY. Non-credit. Prerequisite: Undergraduate major in sociology or anthropology, or in another social science plus ten hours of courses in sociology or anthropology numbered over 400. *The Staff.*

Bi-weekly meetings throughout the academic year devoted to discussions of current literature in sociology and anthropology. Required of graduate students in sociology while in residence.

930. THESIS IN SOCIOLOGY. 5 to 50 hours. *The Staff.*

SOCIAL ANTHROPOLOGY

102. MAN AND HIS CULTURE. *Mr. Kellar* and *Mr. Kelly.*

In introduction to the study of man as a cultural animal, the development of human societies from preliterate beginnings, the rise of complex social organizations with an outline study of the major cultures developed by man.

310. INTRODUCTORY ETHNOLOGY. Prerequisite: Anthropology 102 or introductory course in another social science. *Mr. Kellar* and *Mr. Kelly.*

An introduction to the basic principles of ethnology, the historical and analytical study of primitive cultures. A number of primitive cultures will be surveyed. These will be selected to give the fullest possible coverage in terms of area, race, and culture type.

344. LATIN-AMERICA: PEOPLES AND INSTITUTIONS. *Mr. Kellar.*

The study of contemporary Latin-America peoples and institutions in their community setting; special attention is devoted both to the original impact of Western civilization on the indigenous Indian communities of Central and South America, and to recent social changes incident to the introduction of modern agricultural and industrial technology.

400. (ECONOMICS) EARLY ECONOMIC SYSTEMS. Prerequisites: Anthropology 102 and Economics 105. *Mr. Kellar* and *Mr. Kelly.*

The economic life of primitive peoples. Concepts and principles of classical economics, developed in Western civilization, are studied in the light of practices and thought among primitive groups in Asia, Africa, and the South Pacific.

ARCHAEOLOGY AND PHYSICAL ANTHROPOLOGY

203. HUMAN ORIGINS. *Mr. Kelly.*

A study of the fossil history of mankind—Pleistocene to recent geological periods. The students will gain some familiarity with the main craniometric and anthropometric techniques used in racial studies.

204. THE RACES OF MAN. Prerequisite: Anthropology 203. *Mr. Kelly.*

A study of the development of modern man into races through the sub-specias specialization of Homo Sapiens in the late Pleistocene and Holocene geological times. Human racial hybridism will receive considerable attention in critical world areas where new blended types of man have developed.

211. NORTH AMERICAN ARCHAEOLOGY. Prerequisite: Anthropology 102. *Mr. Kellar* and *Mr. Kelly.*

An introductory course in the archaeology of North America. Will survey the total range of North American prehistory from 10,000 B. C. to the 17th century A. D., tracing development in each of the major culture areas from the early hunting gathering stage to the cultural peaks just before intensive white contact. Special emphasis will be placed on the mechanics of cultural change as discernible by the methods of prehistory.

301. OLD WORLD ARCHAEOLOGY. Prerequisite: Anthropology 203 or 102. *Mr. Kelly.*

The development of culture, beginning with the oldest remains of the Stone Age, extending through the Stone, Bronze, and Iron Ages.

401. ARCHAEOLOGY OF THE SOUTHEASTERN UNITED STATES. Prerequisite: Anthropology 301. *Mr. Kelly.*

A detailed study of the literature dealing with the archaeology of the Mississippi River basin and contiguous areas in the central United States, the Northeastern and Southeastern woodlands, with particular reference to the description of archaeological remains in the American Southeast and the Caribbean region.

420. FIELD AND LABORATORY METHODS IN ARCHAEOLOGY. Prerequisite: Anthropology 211. *Mr. Kelly.*

Methods of archaeological reconnaisance, survey excavation, laboratory preparation and analysis of collected materials; study to be pursued in scheduled field expeditions to assigned archaeological sites in Georgia.

801, 802. RESEARCH IN SOUTHEASTERN ARCHAEOLOGY. 5 hours each. Prerequisites: 20 hours of anthropology with a 400-course in American ethnology or archaeology. *Mr. Kelly.*

The student will pursue graduate research on assigned materials of original archaeological context in the existing collections of the University, or will carry out field excavations on an archaeological site, or unit of exploration or survey, preparing all field recordation and a completed report on the work.

JOINT-LISTED COURSES OF OTHER DEPARTMENTS

293. FAMILY RELATIONS. (See Home Economics 293)

373. SOCIAL PSYCHOLOGY. (See Psychology 373)

440. SOCIAL PSYCHOLOGY: ATTITUDE MEASUREMENT. (See Psychology 440).

SPANISH

(See Modern Foreign Language)

SPEECH AND DRAMA

(Fine Arts Building, North Campus: LeConte Hall, North Campus)

Head: Ballew. Staff: Ainsworth, Camp, Collins, Everett, Fear, Kahan, Luper, Popovich, Weinman.

GENERAL SPEECH

108. FUNDAMENTALS OF SPEECH. *The Staff.*

Study of the fundamental principles necessary to the development of an acceptable speaking voice and an effective informal conversational style.

109. BUSINESS AND PROFESSIONAL SPEECH. 4 hours. *Mr. Fear.*

Analysis of various speaking situations, particularly oral reports, interviews and conferences. Study of the factors determining group productivity and problem solving.

110. SPEECH FOR FOREIGN STUDENTS. *Mr. Fear.*

Special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension. Required course for all foreign students who fail to pass screening examination in oral English.

150. PUBLIC SPEAKING. *The Staff.*

Construction and delivery of various types of extemporaneous speeches with emphasis on the organization of speeches, the principles of attention, the logical and psychological principles of speaking and thinking, and practices in delivery.

209. PHONETICS. Prerequisite: Speech 108. *Mr. Everett.*

Analysis of movements involved in production of the sounds of English both in isolation and in connected speech, including significant regional and foreign dialect variants.

350. ARGUMENTATION AND DEBATE. *Mr. Everett.*

Principles of logical proof as applied in argumentation and debate. Theory and practice in analysis, investigation, brief-making, refutation, evidence, forms of argument, fallacies, and debate procedures.

386. ORAL INTERPRETATION OF PROSE AND POETRY. Prerequisite: Speech 108 or consent of the instructor. *Mr. Popovich.*

A study of the techniques of literary analysis for effective oral reading of lyric and narrative literature and the development of vocal flexibility through a variety of problems in phrasing and emphasis.

387. ORAL INTERPRETATION OF DRAMATIC LITERATURE. Prerequisite: Speech 108. *The Staff.*

A study of the theory, techniques, and principles of interpretation of drama from the points of view of the oral interpreter and actor. Development of oral skills through the study of selected plays and monologues.

412. ADVANCED PHONETICS. Prerequisite: Speech 209. *The Staff.*

A study of the anatomy and physiology of breathing, phonation, resonance, and articulation for speech; a study of the physical phenomena in voice and speech. Advanced practice in transcribing variations of speech into phonetic symbols.

DRAMA

101. INTRODUCTION TO DRAMA AND THEATRE. Lecture-laboratory course. *Mr. Collins.*

A general introductory course in the arts of the theatre; designed for freshmen and transfer students. Each student will be expected to work as assigned on various productions of the University and Laboratory Theatres.

102. ACTING. Lecture-laboratory course. *Mr. Weinman.*

The fundamentals of acting techniques, including pantomine and improvisations. Class lectures, exercises, and reports. Individual and group assignments of various acting techniques and procedures. Each student is required to participate in the productions of the Laboratory Theatre.

103. ADVANCED ACTING. Lecture-laboratory course. Prerequisite: Drama 102 or consent of the instructor. *Mr. Kahan.*

Continuation of exercises in acting techniques and procedures. Particular emphasis on characterization, line interpretation, and tempo. Each student is required to participate in the productions of the Laboratory Theatre.

222. SURVEY OF THEATRE HISTORY. *Mr. Ballew.*

Comprehensive survey and general approach to the history of drama and theatre, providing the basis for the appreciation of drama as a fine art. Lectures, reading of plays, and student reports. Particular emphasis on trends in contemporary American and European theatre.

334. SCENE BUILDING AND PAINTING. Lecture-laboratory course. *Mr. Collins.*

Planning the construction of stage settings; scene building, painting, rigging, and handling; drafting laboratory, use of scale rule and reading floorplans and construction drawings. Practical laboratory assignments as members of University Theatre and Laboratory Theatre crews.

335. SCENE DESIGN. Lecture-laboratory course. *Mr. Camp.*

Survey of history and principles of scene design. Laboratory includes development of designs for a play through sketches, floor plans, colored elevations, and scale models. Practical assignments as members of University Theatre and Laboratory Theatre crews.

400. PLAYWRITING. Prerequisites: Two senior division courses in English or classics, or journalism or drama. *The Staff.*

Elementary laboratory course in playwriting, including study and practice in writing for stage, radio and television. Plays that merit production are presented in the Laboratory Theatre.

420. HISTORY OF THE THEATRE. Prerequisites: Two senior division courses in English or classics or drama. *Mr. Kahan* and *Mr. Popovich.*

The development of the physical theatre and the growth of drama studied from the beginning of dramatic literature in Greece through comedia dell' arte. Representative dramatists of each period and their important contributions to dramatic literature are included from Aeschylus to Shakespeare.

421. HISTORY OF THE THEATRE. Prerequisites: Two senior division courses in English or classics or drama. *Mr. Kahan* and *Mr. Popovich.*

The development of the physical theatre and the growth of drama studied from the Elizabethan period to the present. Representative dramatists of each period and their important contributions to dramatic literature are included from Shakespeare to Girardoux.

429. PLAY ANALYSIS. *Mr. Kahan* and *Mr. Popovich.*

An intensive examination of selected plays and a study of the problems of plot, characterization, and dialogue as they relate to theatre production.

511. THEATRE MANAGEMENT. Prerequisite: Two senior division courses in drama. *Mr. Camp.*

A critical examination of theatre management. A survey of the organization of various non-professional theatres and promotional and managerial procedures.

530. PLAY PRODUCTION. Prerequisites: Two senior division courses in drama. *Mr. Camp.*

Course coordinates all processes and phases of play production. The functions of the director, actor, designer, technician, and business staff are treated as integrated parts of the whole design. Practical laboratory assignments in the field of technical production and stage management in University Theatre and Laboratory Theatre.

531. TECHNICAL PROBLEMS. Prerequisites: Two senior division courses in drama. *Mr. Camp.*

Advanced study of the theory and styles of design (lighting, setting, costuming) in the theatre with special emphasis on the techniques of collaboration between director and technical director.

536. STAGE LIGHTING. Lecture-laboratory course. *Mr. Camp.*

Study of problems of lighting in the theatre; lighting instruments, lighting control; operation of lighting equipment. Practical assignments in the University Theatre and Laboratory Theatre.

560. PLAY DIRECTING. *Mr. Ballew.*

A survey of the theory and practice of play directing in the modern theatre. It deals with the general philosophy of theatre practice, analysis of plays for production, play selection, and play casting. Each student makes a director's study of a specific play.

561. PLAY DIRECTING. Laboratory. *Mr. Ballew.*

The production of plays in the Laboratory Theatre with students in the course serving as directors for the productions. Each student will direct a one-act play during the quarter and submit a detailed director's prompt script of the production.

562. ADVANCED PLAY DIRECTION. Prerequisites: Two senior division courses in drama. *Mr. Ballew.*

Lectures, reports, and reading in contemporary drama and theatre, with particular emphasis on contemporary techniques of staging and direction.

801. SEMINAR IN DRAMA. Prerequisites: Three courses in speech, drama, or dramatic literature. *Mr. Ballew.*

Reading, reports, discussions of problems relating to theatre history and theatre aesthetics and the techniques of research in drama and speech. Required of all graduate majors.

RADIO AND TELEVISION

544. RADIO AND TELEVISION ACTING. Prerequisite: Two senior division courses in Speech, Drama or Radio-Television. *Mr. Weinman.*

Adopting fundamental principles of acting to the broadcasting media of radio and television. Emphasis on dramatic presentation, including puppet theatre in TV. Other on-campus acting or announcing (the audition, commercial, panel ad lib) only if student has not had it.

545. DIRECTING THE RADIO AND TELEVISION DRAMA. Prerequisite: Two senior division courses in Speech and Drama, or Radio-Television. *Mr. Weinman.*

Adopting fundamental principles of directing to radio and television. Casting, rehearsing and presenting original and professional non-royalty scripted dramas or cuttings from full-length dramas in laboratory studios.

546. ADVANCED PROJECTS IN RADIO AND TELEVISION DRAMA. Prerequisite: Two senior division courses in Speech, Drama or Radio-Television. *Mr. Weinman.*

Preparation and testing of dramatic material designed for educational television programs. Students will be assigned as writers, directors, technical directors, floor directors and actors, learning in the studio to handle special problems of dramatic presentation as they occur in an assigned series related to the humanities.

582. RADIO-TELEVISION PROGRAMMING. (Also offered as Journalism 582). Prerequisite: Journalism 580.

A study of programming with special emphasis on public service and the social aspects of radio and television. An examination of Peabody entries and winners.

583. RADIO-TELEVISION PERFORMANCE. (Also offered as Journalism 583). Prerequisite: Journalism 580.

A laboratory course wherein the student gets actual experience, under faculty supervision, in various aspects of broadcasting and telecasting. On-the-job experience will be supplemented by seminars and regular conferences with instructors.

585. TELEVISION. (Also offered as Journalism 585).
An introductory course concerned with the history, problems, and techniques of television. Theoretical instruction is supplemented by laboratory observation and work in nearby television stations.

SPEECH-DRAMA EDUCATION

591. TEACHING OF SPEECH AND DRAMA. Prerequisites: Two senior division courses in speech or drama or secondary education. *Mr. Popovich.*
Philosophy, methods, and problems of teaching speech and drama in elementary and secondary schools. Emphasizes the analysis of speech needs of children and techniques in implementing speech and drama activities for general speech improvement.

592. CREATIVE DRAMATICS FOR CHILDREN. Prerequisites: Two senior division courses in speech or drama or elementary education. *Mr. Popovich.*
A thorough study of theories, principles, and techniques in original dramatization for children. Preparation for students who wish to do creative work in drama with children.

593. SPEECH FOR THE ELEMENTARY SCHOOL. Prerequisites: Two senior division courses in speech and drama and/or elementary education. *Mr. Popovich.*
A study of the various speech activities for elementary school children.

SPEECH CORRECTION

310. SURVEY OF SPEECH PROBLEMS. *Mr. Ainsworth.*
The introductory course for those majoring in speech correction. Acts as a course for the classroom teacher who wishes to become informed about speech problems and as a course for students majoring in Speech-Drama. A study of the major etiology, and basic therapy for all types of speech defects, with a concentration on those most commonly found in the classroom.

470. DIAGNOSIS IN SPEECH CORRECTION. Prerequisites: Speech 310 and Speech 412. *Mr. Ainsworth.*
The theory, administration, and interpretation of tests and diagnostic procedures used in determining the nature, etiology of and therapy for speech defects. In addition to various methods for analyzing speech, attention is given to non-audiometric evaluation of hearing, examination of speech mechanism, special abilities related to speech, and to an understanding of how results of psychological tests are related to speech problems.

471. INTRODUCTION TO ELEVATION OF HEARING LOSS. Prerequisite: Speech 412. *Mr. Luper.*
The anatomy and basic psychophysics of hearing, the pathologies causing hearing loss, and basic theory of hearing evaluations. A survey of educational, psychological and medical rehabilitation for persons with a loss. Practice in pure tone audiometry.

474. (EDUCATION) VOICE AND ARTICULATION DISORDERS OF SPEECH. Prerequisite: Speech 470 or consent of instructor. *Mr. Luper.*
A study of etiology and the rationale and methods of therapy for functional and organic disorders of voice and articulation. The development of a therapeutic program and lesson plans. Supervised clinical practice in voice and articulation disorders with individuals and groups.

476. (EDUCATION) STUTTERING: ETIOLOGY AND THERAPY. Prerequisite: Speech 470. *Mr. Luper.*
A study of the major theories of causation of stuttering, whether based on neurophysiological, emotional, or learning factors. The development of an integrated therapy based on modern research in stuttering. Supervised clinical practice in individual and group therapy for stutterers.

535. (EDUCATION) DIRECTED INDIVIDUAL STUDY IN SPEECH CORRECTION. Prerequisites: Four courses in correction or consent of instructor. *The Staff.*
This course is designed to permit adaptation of the Speech Correction curriculum to the individual needs of mature students. A detailed outline of requirements must be prepared in conference by the student and instructor and approved by the Chairman of the Speech Correction Area, DEEC, and the Head of the Department of Speech and Drama.

536. (EDUCATION) DIRECTED INDIVIDUAL STUDY IN SPEECH CORRECTION. Prerequisites: Four courses in speech correction or consent of instructor. *The Staff.*

Outline of work must be approved in the same manner as for Speech or (Education) 535, but content must be different.

537. (EDUCATION) SEMINAR IN SPEECH PATHOLOGY. Prerequisites: Six courses in speech correction or four courses and the consent of the instructor. *Mr. Ainsworth.*

Intensive and thorough exploration of the research and theory in one or more areas of speech pathology. Specific content in any one quarter will be adapted to the particular needs of the student. Group projects may be carried in addition to readings and lectures.

835. (EDUCATION) ORGANIC DISORDERS OF SPEECH. Prerequisites: Six courses in Speech Correction. *Mr. Ainsworth.*

A detailed study of pathologies affecting speech, the speech test and therapy for cases of cleft palate, cerebral palsy, aphasia, laryngectomy, and retarded speech. Develops an understanding of the role of speech pathologist in the medical-psychological-educational speech therapist team for the rehabilitation of physically and emotionally handicapped individuals.

836. (PSYCHOLOGY) ANATOMY AND PSYCHOPHYSICS FOR SPEECH CORRECTION. Prerequisites: Six courses in speech correction or four graduate courses in psychology. *Mr. Ainsworth.*

An intensive study of the anatomy and physiology of speech and hearing and the psychophysics of hearing. Laboratory with models, charts, and specimens.

ZOOLOGY*

(Biological Science Building, Science Center)

Head: McGhee. Staff: Boyd, Byrd, Cleveland, Cosgrove, Golley, Hinton, Kent, Martof, Nuttycombe, Odum, Pomeroy, Scott, Thomas.

No student will be allowed to take a senior division course in zoology unless he has a minimum grade of C or above in all prerequisite courses.

Students may, with the permission of the Head of the Department, credit the following courses toward a major in Zoology: Entomology 373 or Entomology 376, or Bacteriology 350.

101-102. HUMAN BIOLOGY. 10 hours (5 hours a quarter). Four lectures and one demonstration period. *The Staff.*

The aim of this course is to give the student some acquaintance with biological principles and their application to the human organism.

225. GENERAL ZOOLOGY. Three lectures and two double laboratory periods. Prerequisites: Human Biology 101-102 or Botany 121 or 122. *Mr. Nuttycombe* and *Miss Thomas.*

A survey of the invertebrate animals, their biology, structure, and relation to other animals.

226. GENERAL ZOOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Martof.*

A study of the structure, body functions, interrelations, and natural history of the vertebrate animals.

201. HUMAN HEREDITY. Four lectures and one two-hour recitation period. Prerequisites: Human Biology 101-102. *Mr. Hinton.*

Illustration of genetic fundamentals with human pedigrees and populations and discussion of the role of genetics in human affairs.

312-313. HUMAN ANATOMY AND PHYSIOLOGY. 10 hours. Three lectures and two double laboratory periods. Prerequisites: Human Biology 101-102 and Chemistry 121-122. *Mr. Kent.*

Systematic study of the anatomy and physiology of the human body. For physical education majors only.

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*Students may be held responsible for breakage in laboratory courses.

350. NATURAL HISTORY OF VERTEBRATES. Three lectures and two double laboratory periods. Prerequisite: Zoology 226. *Mr. Scott.*

An introduction to local vertebrate fauna with emphasis on behavior, life history, ecology and systematics.

353. ECOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 225 and 226 or equivalent in another biological science. *Mr. Odum.*

A survey of basic principles of ecology and their application to the welfare of man, coordinated with a study of animal populations and communities in the field.

355. EMBRYOLOGY. Two lectures and three double laboratory periods. Prerequisites: Zoology 226. *Mr. Nuttycombe.*

An elementary course in embryology in which the chick is used to illustrate the basic principles of developmental anatomy.

356. COMPARATIVE ANATOMY OF THE VERTEBRATES. Two lectures and two triple laboratory periods. Prerequisites: Zoology 225 and 226. *Mr. Scott.*

The evolution of vertebrate organ systems.

357. ANIMAL HISTOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 225 and 226. *Mr. Byrd.*

A study of the tissues and their organization into organs and organ systems in animals.

361. HISTOLOGICAL TECHNIQUE. Five double laboratory periods. Open to majors in zoology only. *Mr. Byrd.*

A course offering training in the preparation of histological material, including practice in fixing, sectioning, staining, and mounting.

370. GENETICS. Three lectures and two double laboratory periods. Prerequisites: Botany 121-122 or Zoology 225-226. *Mr. Hinton.*

An introduction to the principles of biological inheritance.

372. PARASITOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 225 and 226. *Mr. Byrd.*

A comparative study of internal parasites of man and the lower animals.

381. ORNITHOLOGY. Two lectures and three double laboratory periods. Prerequisite: Zoology 225 and 226. *Mr. Odum.*

An introduction to the study of birds, emphasizing the identification, classification, life histories, and economic importance of Georgia species.

390. GENERAL PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 226 and Chemistry 340b (or equivalent). *Mr. Cosgrove* and *Mr. Kent.*

An introduction to general physiological processes with laboratory emphasis on techniques.

401. ADVANCED GENETICS. Three lectures and two double laboratory periods. Prerequisites: Zoology 370 and one other senior division course in Biological Science. *Mr. Hinton.*

The experimental bases of modern genetic theory with emphasis on chromosome mechanics, mutations and gene action.

403. MAMMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two senior division courses in zoology. *Mr. Odum.* (Offered alternate years. Offered 1960-61).

A study of the taxonomy, distribution, ecology, and evaluation of mammals with special emphasis on land mammals of the Southeast.

404. HERPETOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two senior division courses in zoology. *Mr. Martof.* (Offered alternate years. Offered in 1960-61).

An introduction to the taxonomy, distribution, ecology, behavior, and evolution of amphibians and reptiles, with special emphasis on those of the Southeast.

405. ICHTHYOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 356 and one other senior division course in zoology. *Mr. Scott.* (Offered alternate years. Offered in 1960-61).

A study of the taxonomy, distribution, ecology, and evolution of fishes with special reference to the marine and freshwater fishes of eastern North America.

409. MARINE INVERTEBRATE ZOOLOGY. 10 hours. Daily lectures and laboratories. Prerequisites: Two senior division courses in zoology and permission of instructor. *The Staff.*

Offered at the Marine Institute on Sapelo Island during the summer session and dealing with the anatomy, physiology, ecology and taxonomy of marine invertebrates.

429. ENDOCRINOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 390 and one other senior division course in Zoology. *Mr. Kent.* (Offered alternate years. Offered 1960-61).

Physiology of the endocrine glands, their control of metabolism and reproductive cycles.

454. AQUATIC BIOLOGY. Two lectures and three double laboratory periods. Prerequisites: Two senior division zoology courses. *Mr. Scott.*

A study of fresh-water organisms and their environment with emphasis on the principles of limnology.

456. MARINE BIOLOGY. Three lectures and two laboratory periods. Prerequisites: One course *each* of physics, chemistry, algebra; at least two senior division courses in biology. *Mr. Pomeroy.* (Offered alternate years. Offered 1960-61).

Deals with the sea as an environment, including physical and chemical principles of this environment as they affect living organisms.

457. MARINE BIOLOGY. Three lectures and two double laboratory periods. Prerequisite: Zoology 456. *Mr. Pomeroy.* (Offered in 1960-61 and in alternate years).

Deals with populations of the sea, their interactions, productivity, and relation to the physico-chemical environment.

800. ZOOLOGY SEMINAR. 1 hour. Prerequisite: Graduate status in a biological science. *The Staff.*

Weekly meetings for full year devoted to discussions of current literature dealing with research in zoology.

801. PARASITIC PROTOZOA. Prerequisite: Consent of the instructor. *Mr. McGhee.*

Experimental study of morphology, life histories, classification, and parasitic relationships of protozoan parasites of man and the lower animals.

803. HELMINTHOLOGY. Prerequisite: Consent of the instructor. *Mr. Byrd.*

A study of the morphology, life histories, classification, and parasitic relationships of the helminths.

807. ADVANCED INVERTEBRATE ZOOLOGY. Three lecture and two double laboratory periods. Prerequisite: Consent of the instructor. *Miss Thomas.*

Deals with the morphology, phylogeny and general biology of the acoelomate and pseudocoelomate phyla.

808. ADVANCED INVERTEBRATE ZOOLOGY. Three lectures and two double laboratory periods. Prerequisite: Zoology 807 or consent of the instructor. *Miss Thomas.*

Deals with the morphology, phylogeny and general biology of the coelomate phyla.

810. EVOLUTION. Five lectures. Prerequisites: course in genetics and three other courses in Zoology numbered above 300. *Mr. Martof.* (Offered alternate years. Not offered in 1960-61).

A consideration of the meaning of evolution, the history of evolutionary thought, the origin of life, the mode of origin of hereditary variation, the origin of species, and the main lines of evolution.

820. CELLULAR PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 390 and Chemistry 390 (or equivalent). *Mr. Cosgrove.* (Offered alternate years. Not offered in 1960-61).

A study, at the cellular level, of the nature and mechanisms of the fundamental physiological processes.

822. COMPARATIVE PHYSIOLOGY (METABOLIC SYSTEMS). Three lectures and two double laboratory periods. Prerequisite: Zoology 390. *Mr. Cosgrove.* (Offered alternate years. Offered in 1960-61).

Physiology of nutrition, respiration and metabolism, circulation and excretion in animals.

826. COMPARATIVE PHYSIOLOGY (BEHAVIORAL SYSTEMS). Three lectures and two double laboratory periods. Prerequisite: Zoology 390. *Mr. Cosgrove.* (Offered alternate years. Offered 1960-61).

Properties and functions of nervous systems, receptors and muscles.

827. VERTEBRATE PHYSIOLOGY Three lectures and two double laboratory periods. Prerequisite: Zoology 390. *Mr. Kent.* (Offered alternate years. Not offered in 1960-61).

A detailed consideration of the special physiology of vertebrates.

829. ADVANCED ENDOCRINOLOGY. Two lectures and three double laboratory periods. Prerequisite: Zoology 429. *Mr. Kent.* (Offered alternate years. Offered in 1960-61).

Analytical techniques applied to endocrinology through assigned projects.

830. SEMINAR IN PARASITOLOGY. Credit 1 hour per quarter. Maximum credit allowable, 6 hours. Prerequisite: Consent of instructor. *Mr. Byrd.* (Offered when enrollment justifies).

Weekly meetings for full year devoted to discussions of parasitological subjects.

852. FISHERIES BIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 405 and 454. *Mr. Scott.* (Offered alternate years. Not offered in 1960-61).

A study of the biodynamics of natural populations as exhibited by the fishes.

854. PHYSIOLOGICAL ECOLOGY. Prerequisite: Consent of the instructor. *Mr. Odum.* (Offered alternate years. Not offered in 1960-61).

A study of the physiological basis for animal behavior, with emphasis on the major physical factors of the environment as they affect the organism as a whole.

855. ADVANCED ECOLOGY. Prerequisite: Consent of the instructor. *Mr. Odum.* (Offered alternate years. Offered in 1960-61).

An advanced course in ecological principles with emphasis on population ecology.

856. ECOLOGY SEMINAR. Credit 1 hour per quarter; maximum credit allowable, 6 hours. Prerequisite: Consent of the instructor. *Mr. Odum, assisted by the Staff.*

Biweekly evening meetings covering recent advances in ecology and emphasizing the integration of current ideas and data from plant, animal and microbial research.

900. PROBLEMS IN ZOOLOGY. *The Staff.*

This course allows students to work intensively on problems in an approved field of zoology.

THE SCHOOL OF LAW

JOHN ALTON HOSCH, B.S.C., M.A., LL.B., LL.D., *Dean*

GENERAL INFORMATION

Courses in law were first offered at the University in 1843 and the School of Law of The University of Georgia was established in 1859. The Honorable Joseph Henry Lumpkin, a distinguished lawyer, who later became the first Chief Justice of the Supreme Court of Georgia, was elected the first professor of law.

The School of Law is a member of the Association of American Law Schools, an organization of the leading law schools of the country. The American Bar Association and the Georgia Bar Association have approved the quality of its work. The School has also been approved by the Board of Regents of the State of New York so that its graduates are eligible to take the bar examination in that state as in other states.

STANDARDS OF THE AMERICAN BAR ASSOCIATION

The Council on Legal Education and Admissions to the Bar of the American Bar Association requests that attention be called to the following standards adopted by the Association:

1. The American Bar Association is of the opinion that every candidate for admission to the bar should give evidence of graduation from a law school complying with the following standards:

a) It shall require as a condition to admission at least three years of study in a college, or its equivalent.

b) It shall require its students to pursue a course of three years' duration if they devote substantially all of their working time to their studies, and a longer course, equivalent in the number of working hours, if they devote only a part of their working time to their studies.

c) It shall provide an adequate library available for the use of the students.

d) It shall have among its teachers a sufficient number giving their entire time to the school to ensure actual personal acquaintance and influence with the whole student body.

e) It shall not be operated as a commercial enterprise and the compensation of any officer or member of its teaching staff shall not depend on the number of students or on the fees received.

2. The American Bar Association is of the opinion that graduation from a law school should not confer the right of admission to the bar, and that every candidate should be subject to an examination by public authority to determine his fitness.

3. The Council on Legal Education and Admissions to the Bar is directed to publish from time to time the names of those law schools which comply with the above standards and of those which do not, and to make such publications available so far as possible to intending law students.

The School of Law of The University of Georgia is approved by the Council on Legal Education of the American Bar Association as fully complying with these standards.

PURPOSES AND METHOD OF INSTRUCTION

The courses of study offered in the School of Law are designed to give a thorough knowledge of the Anglo-American system of common law and to familiarize the student with statutory laws with which he must deal. Emphasis is placed on teaching the student how to make a practical application of the legal principles he learns. The School also undertakes to shape the interests and aims of its students so as to make them respected and useful citizens and to instill in them that high sense of personal honor and regard for professional ethics that should characterize members of the legal profession.

In general, the School operates under the case method of instruction as best designed to enable students to master the common law and equity as working systems. The student studies actual cases, deducing from them the principles of law involved, and this approach tends to develop in the student the power of analysis of legal problems. In addition, however, the study of cases is supplemented by statutory and textual materials. This method of instruction accords with that followed by the leading law schools of the country.

Instruction is given in the drafting of legal instruments by requiring the student to prepare, under the supervision of an instructor, contracts, leases, deeds, wills, charters, and other legal documents.

Practical instruction in the preparation and trial of cases is given in a Practice Court under conditions made as nearly as possible like those prevailing in the courts of the State. The work of this court is carried on under the direction of a member of the faculty, judges, and practitioners. Here are taken up matters relating to the preparation of pleadings, examination and cross-examination of witnesses, writing of briefs, presentation of arguments to the court and jury, taking of cases from lower courts to appellate courts, and other related subjects of a practical nature. For the work of this court there is a large and handsomely furnished court room.

PRE-LEGAL CLUB

A pre-legal club, composed of students in the various schools and colleges of the University, and under the supervision of a member of the law faculty, seeks to acquaint students interested in the study of law with the work and environment of the Law School. Suggested undergraduate work that should prove of definite value in preparation for law study is brought to the attention of the students. The club elects its own officers, holds periodic meetings, and participates to some extent in the activities of the School. Through the club, faculty and students in the Law School meet the prospective students of the future, and in some measure assist these in preparation for entry into a professional school.

LAW CLUBS

The student body of the School of Law is organized into clubs. Each club is presided over by a chief justice who is a member of the senior class. Cases are assigned to members of the first and second year classes for argument. The arguments are conducted before some member of the senior class or before some professor or practicing attorney invited by the club to sit as judge. After the decision legal principles involved in the case are discussed. These discussions frequently give to a student insight into a legal problem which he could not get so readily in any other way. With

a regular schedule of cases in which opposing attorneys are members of different clubs, a spirit of friendly and wholesome rivalry has been developed among the clubs.

LECTURES

In order that students may receive first-hand knowledge of what is actually taking place in the courts and of the development in the various fields of the law, a number of distinguished lawyers and judges deliver lectures on phases of the law in which they may be particularly interested. These men come to the School of Law because of interest in legal education and give their services without compensation.

STUDENT MEMBERSHIP IN GEORGIA BAR ASSOCIATION

Any member of the second year or third year class is eligible for junior membership in the Georgia Bar Association. Students eligible for membership are urged to avail themselves of this privilege and to attend the meetings of the Bar Association. Student members of the Association become acquainted with the leaders of the bench and bar and are introduced to problems considered by lawyers in their professional organizations. There is thus developed in the student a sense of professional consciousness.

BUILDINGS AND LIBRARY

The School of Law of the University is housed in three buildings. The Main Law Building is a handsome structure provided by alumni and friends of the University and completed in 1932. It was named in honor of Harold Hirsch, Class of 1901, a devoted alumnus. On the ground floor are the court room and smoking and lounging rooms. The main floor of the building contains three large lecture rooms, administrative offices, and private offices for professors. The Alexander Campbell King Library is located on the top floor of the building. It was named for the late Judge Alexander Campbell King, Solicitor-General of the United States under President Wilson, and later a Judge of the United States Circuit Court of Appeals for the Fifth Circuit. The School of Law is greatly indebted to the widow of Judge King, Mrs. Alice M. King, who contributed generously to the establishment of the library in memory of her husband. In addition to the library offices, the Library has a stack room with a capacity of 75,000 volumes, a typing room for the convenience of students, and a commodious air-conditioned reading room.

The Institute of Law and Government occupies the building on the North adjacent to the Main Law Building. It contains several offices, library, seminar and conference rooms, and other facilities.

In the small structure behind the Institute of Law and Government is the office of the Student Editorial Board of the Georgia Bar Journal. Here also is a memorial room resembling a Georgia law office of a century ago with interesting and valuable furniture and other objects belonging to distinguished jurists and alumni of the School.

The Library of the School of Law now contains more than 40,000 well selected volumes to which approximately 1,500 volumes are added annually. The book collection includes the reports of all cases decided by the appellate courts of the United States as well as a large collection of reported cases from the leading common-law jurisdictions of the British Commonwealth.

The collection of statutory law includes the codes, or general statutes, of each of the states and territories. In addition there is a rapidly increasing file of leading law reviews in the English language and a comprehensive collection of up-to-date treatises on all phases of the law.

The library receives a substantial appropriation every year for the purpose of continuously expanding the book collection which is further augmented by the gifts of friends and alumni of the School of Law.

The facilities of the General University Library are also available to the students of the School of Law.

DORMITORY

The Law and Graduate Students Dormitory, a modern three-story brick building completed in 1958, houses one hundred and fifty students. The bedrooms will accommodate two students and are furnished with beds, desks and chairs, a lavatory and cabinet. On each floor is a study room with table and chairs. There are bathrooms, water fountains, laundry chutes and other facilities on the three floors. A library and lounge on the first floor has a complete set of Georgia Appellate Reports, the Code, and a number of law treatises. Charges are $75 per quarter, which includes a limited amount of flat-work laundry. Distinct advantages are gained by law students living and working together in the Law and Graduate Students Dormitory.

INSTITUTE OF LAW AND GOVERNMENT

The Georgia Institute of Law and Government was established in 1953 and operates as an integral part of the School of Law. A reorganization in 1957 expanded the program of the Institute and made it the University agency primarily responsible for research, training, and service activities in the fields of law, government, and public administration. In this reorganization the Institute assumed the functions formerly performed by the University's Bureau of Public Administration.

The Institute enables the lawyer, the legal scholar, the public official, and those who are skilled in related fields to study specifically some of the things the law seeks to accomplish and, upon the basis of review of available materials and the application of legal thought and techniques, to formulate the groundwork for legislation reasonably calculated to accomplish desired ends. Cooperation with the courts, the Georgia Bar Association, the Judicial Council, and other governmental agencies and groups in the State interested in improving the administration of justice and public administration in general, makes the work of the Institute, through its study of law in action, an effective complement to the theoretical studies carried on in the School.

Through its research program, the Institute produces a constant flow of publications on law, government, and public administration. This program involves basic as well as applied research in these fields. In cooperation with the Georgia Center for Continuing Education and other schools and colleges, the Institute conducts an extensive program of conferences, institutes, and short courses for lawyers, governmental officials, and public employees. The service program of the Institute embraces a wide range of technical and consultative assistance to members of the Bar, public officials, governmental agencies, and civic groups of the State.

ADMISSION OF STUDENTS

ENTRANCE REQUIREMENTS

An applicant for admission to the School of Law as a candidate for the degree of Bachelor of Laws must be of good character and present satisfactory evidence of that fact. He must also present satisfactory evidence that he is a graduate of a college of approved standing or that he has satisfactorily completed at least three years of regular residence work at such a college constituting not less than three-fourths of the work acceptable for a bachelor's degree granted on the basis of a four-year period of study.

There is no requirement that applicants for admission have college credit in any specified subjects. The prospective law student should seek a broad general education. It is important to be well trained in the use of English and to be able to write effectively. In addition, as many as possible of the following subjects should be studied: History; logic; philosophy; mathematics (at least the elementary courses); enough science to appreciate its importance; some economics; government, and psychology. Some knowledge of sociology and the ability to speak are useful to a lawyer.

In accordance with action of the faculty of the School of Law, with the approval of the President of the University, all applicants will complete a series of tests with scores evidencing ability profitably to pursue studies in law. These tests will be taken after all other requirements for admission have been met, and prior to consideration of the applicant for acceptance.

The School of Law admits both men and women students as candidates for degrees.

ADVANCED STANDING

The Dean may, in his discretion, give full credit for work done in other law schools which are members of the Association of American Law Schools. Under no circumstances, however, will advanced credit be given for more than two years of work. The last year of work on the basis of which a degree is granted must be taken in this School of Law. Students seeking to enter the School of Law with advanced standing must comply with all the entrance requirements set forth above.

DIRECTIONS TO APPLICANTS FOR ADMISSION

Every applicant for admission to the School of Law must present to the University Director of Admissions a complete transcript of his college work, together with two small photographs of the applicant. The matter of registration will be simplified if this transcript is sent to the University Director of Admissions well in advance of the opening of the session which the applicant expects to attend. The transcript may be procured from the registrar of the college or university at which the student's pre-legal work was done.

Information about the place and times of the administration of admission tests will be furnished the applicant when all other requirements for admission have been met. In order to schedule the tests it is necessary that the application be completed three weeks before the date of registration for the session the applicant expects to attend. Tests are scheduled several times during the Winter, Spring and Summer Quarters each year, and prospective students are urged to complete applications as early as possible in order

that they may take the tests at one of the earlier dates. For admission in September of 1960, tests will be administered on April 9, May 14, and July 9 on the campus of the University at Athens.

COMBINED COURSES

A student who has completed three years of required work in the College of Arts and Sciences, the College of Business Administration, or the School of Journalism may substitute the first year of satisfactory work in the School of Law for his senior work and thus at the end of his fourth year of study receive the degree of Bachelor of Arts, Bachelor of Business Administration or Bachelor of Arts in Journalism. However, this first degree will be granted only upon satisfactory completion of 185 quarter hours (186 quarter hours for the degree of Bachelor of Business Administration), exclusive of Physical Education and basic Military or Air Science. On the successful completion of the two remaining years of work in the School of Law he will be entitled to receive the degree of Bachelor of Laws. A student may in this manner receive in six years both the academic and law degrees.

DEGREES

Bachelor of Laws. In order to receive this degree a student must have completed not less than 120 quarter hours of work with a weighted average of at least a minimum C.

The 120 quarter hours of work on the basis of which a degree is granted must include all the work of the first year. The following courses in the work of the second and third years are required: Constitutional Law, Equity, Evidence, Georgia Practice and Procedure, Legal Ethics, Practice Court, and Property II.

In order to receive a degree, a student must satisfy not only the requirements specified above but must also have been in attendance at the School of Law for nine full quarters. A sturent may not register for less than twelve quarter hours or for more than sixteen quarter hours without permission of the Dean. To get credit for a residence quarter, a student must be registered for a minimum of ten quarter hours and pass a minimum of nine such quarter hours.

The Dean may give credit for work done in other law schools approved by the Association of American Law Schools. However, in all cases the work of the three quarters immediately preceding the granting of a degree must be completed in this School.

A student who completes a full summer session is credited with one quarter of residence toward the degree requirements.

The faculty of the School of Law will, in its discretion, recognize unusual scholastic attainments of genuine distinction by awarding the degree of Bachelor of Laws *summa cum laude, magna cum laude, or cum laude.*

Master of Laws. The School of Law has a program leading to the degree of Master of Laws. A prerequisite is a Bachelor of Laws degree from an approved law school, the work done being of such quality as to indicate that advanced work may be pursued with profit. At least one academic year of full-time study is required. The thesis and not less than one-half of the student's course work must be in the general field of law. The program for the degree provides opportunity for specialization in a chosen field or a broadening of his general knowledge of the law. It is designed to encourage legal scholarship of high quality and is particularly adapted to students in-

terested in careers in teaching law, further study in specialized fields, especially practice in public law, or opportunities for legal work in various branches of government service. Students seeking this degree normally will be required to maintain a scholastic standing considerably higher than was required for graduation with the Bachelor of Laws degree. Programs suited to individual desires and needs may be arranged. Further information can be obtained from the Dean of the School of Law.

General Information. No student may receive a degree without the favorable recommendation of the faculty, and this may be withheld for satisfactory cause although the required work has been completed.

A candidate for a degree, unless excused in writing by the secretary of the faculty of the University, must attend the graduation exercises at which he expects a degree to be conferred upon him.

THE HONOR CODE

In 1930 the student body of the School of Law unanimously adopted the Honor Code. Through the ensuing years it has been subscribed to and administered by the students. Upon entering the School of Law every student is provided with a copy of the Honor Code Constitution, which sets forth the requirements and the machinery for enforcing the same. The requirements are that a student shall act honorably in all relations of student life. Lying, cheating, failure to report any instance of infraction of the Honor Code, or breaking one's word of honor, are condemned. After opportunity to examine the Honor Code Constitution and to acquaint himself with the environment of the School, each student is given the opportunity to sign a pledge by which he promises to observe the provisions of the Honor Code. Upon subscribing to the pledge the student is thereafter bound by the provisions of the Honor Code during the time he remains in the School of Law.

LAW STUDENT ADVISORY COUNCIL

The Law Student Advisory Council is composed of all class officers and the members of the Honor Court. Its function is to bring about a closer relationship between students and the faculty and administration of the Law School. Through such a student group the reasoned views of the student body become articulate, oftentimes with beneficial effect on the work of the School. A thoroughly democratic group, the Advisory Council represents students in every class as well as those entrusted with the administration of the Honor Code, and all are elected by their fellow students. The student body works in close cooperation with the Advisory Council. The Advisory Council is affiliated with the Law Student Association, an organization sponsored by the American Bar Association. Through this connection much literature on student affairs is made available for helpful interchange of student thought.

THE UNIVERSITY OF GEORGIA LAW SCHOOL ASSOCIATION

The University of Georgia Law School Association consists of all lawyers who are alumni of The University of Georgia School of Law or of The University of Georgia. Members of the Association are represented by elected officers. The object of the Association is to promote the interest of The University of Georgia School of Law through support of the cause of legal education at the University, to strive for the improvement of the law and the administration of justice in Georgia, and to sustain a permanent affili-

ation and fellowship among all lawyers who attended The University of Georgia. It has an active and loyal membership and is a source of strength to the Law School.

ADMINISTRATIVE REGULATIONS

The general regulations and requirements relating to the University as a whole apply to students in the School of Law except in so far as they may have been modified or changed by the Faculty of the School of Law with the approval of the President of the University. Students in the School of Law will be advised of such changes as may be made from time to time.

REGISTRATION

Students may enter the School of Law at the beginning of the Fall Quarter.

Service fees for late registration will be assessed by the Registrar in accordance with University regulations.

A student is entitled to be registered as a second-year student when he has satisfactorily completed not less than thirty quarter hours of his first year's work.

A student is entitled to be registered as a third-year student when he has satisfactorily completed not less than seventy-five quarter hours of work which must include all first-year required subjects.

No student may, without special permission of the dean, register for less than twelve hours of work per week in any quarter or take for credit more than sixteen hours of work.

The courses of study in the School of Law are designed to occupy the full time of students, and no student in the School of Law may, without special permission of the Dean, take courses in other schools or departments of the University.

AUDITORS

A student who wishes to attend lectures in a course, but who does not wish to take the examination, may, with permission of the Dean, register as an auditor in that course. A student's record card will indicate the lectures which he attended as an auditor, but no credit toward a degree will be given for work so taken. The School of Law reserves the right to withdraw this privilege for any course in which the instructor deems it inadvisable to admit auditors.

ATTENDANCE

The right to take the examinations, as well as the privilege of continuing one's membership in the School, is conditioned upon regular attendance at classes and the other exercises of the School. A student who during a quarter incurs in any course a number of absences in excess of double the number of times which that course meets per week will be excluded automatically from the examination in that course, and only in exceptional cases will the student be permitted by the faculty of the School of Law to take the examination.

EXAMINATION AND GRADING SYSTEM

Written examinations are given upon the completion of the various courses offered in the School.

The work of each student is graded as follows: A; B+; B; C+; C; D+; D.

Other marks are in use to indicate varying grades of work. They are:

P—(Pass).

F—(Failure). This grade may be converted into a higher grade by repeating the work in the course.

I—(Incomplete). This grade indicates that a student, although doing satisfactory work was, for some reason beyond his control, unable to complete the course.

W—Withdrawn from the course by permission with no grade assigned.

WF—Indicates a course from which the student withdrew while doing unsatisfactory work. This grade carries the F value.

EXCLUSION OF STUDENTS

A student who, at the end of his first three quarters, or at the end of any quarter thereafter, does not have a weighted average grade of the minimum C on all work taken by him since entering the School of Law, shall not be entitled to continue in attendance except by special permission of the Dean and upon such showing and such conditions as the Dean may require. This permission will be granted only in unusual cases.

FEES

Students in the School of Law who are residents of the State of Georgia are required to pay each year (three quarters) a matriculation fee of $232.50.

Students whose homes are not within the State of Georgia are required to pay each year (three quarters) a matriculation fee of $532.50.

In the cases of both resident and non-resident students matriculation fees may be paid in quarterly installments.

A student receiving a bachelor's degree from the School is charged a diploma fee of $8, which includes rental of cap and gown, payable at the time the student makes application for graduation. The student should apply for graduation three quarters prior to the date he expects to complete requirements for the degree.

All rates, including matriculation fees, room, and board, are subject to revision at the beginning of any quarter.

EXPENSES

The cost of new law books will average, through the three years, about $75 per year. Second-hand books may be had at less lost.

Charges for housing in the Law and Graduate Students Dormitory, including certain flat work laundry, are approximately $75 per quarter.

If a student prefers he may obtain board and lodging in a private home or boarding house. The prices for both rooms and meals vary considerably in the city.

Incidental expenses are entirely within the control of the student and cannot be regulated by the University.

LOAN FUNDS

The University has the Brown Fund, the Lumpkin Fund, and other funds from which loans may be made to students. Law students may apply for these loans on the same basis as other students. Those who desire information regarding loans from these funds should write to the Director of Placement and Student Aid.

The Georgia Bar Association has a fund from which loans can be made to a limited number of deserving students in need of financial assistance. Information regarding loans from this source can be obtained from the Dean of the School of Law.

Mrs. Nettie Elsas Phillips has created a fund of $5,000 in memory of her husband, Benjamin Z. Phillips, a loyal alumnus of the School. The annual income of this fund is available for loans to students in the School of Law. Applications for loans from this source should be made to the Faculty of the School of Law.

OPPORTUNITIES FOR SELF-HELP

A number of students find it possible to earn part of the money necessary to pay their expenses. Those who desire information concerning opportunities for self-help should write to the Director of Placement and Student Aid.

PLACEMENT

The Law School endeavors to assist students in finding legal positions upon graduation. Complete files are maintained on all students in the School and information is made available to interested parties. Through cooperation with the organized alumni, placement committees of the Georgia Bar Association, Circuit Bar Associations, and other groups, as well as through the efforts of individual members of the law faculty, most graduates have found satisfactory connections in the practice or in other fields where their legal training is of value.

RELIGIOUS ACTIVITIES

The University recognizes that religious influences are essential to the well-rounded development of the individual. There is located on the University campus a University of Georgia Religious Association which does much to serve the spiritual needs of the students and to provide for them wholesome social environment. The Association cooperates with student pastors and workers maintained by the Athens churches and throughout the year sponsors special programs for and by the students.

FRATERNITIES

In the School of Law are chapters of the Phi Alpha Delta, and Phi Delta Phi, legal fraternities for men, and Phi Delta Delta, legal fraternity for women. Law students are also eligible for membership in the local chapters of Phi Beta Kappa and Phi Kappa Phi. There are located at the University chapters of a number of the leading social fraternities of the country. Law students are eligible for membership in these fraternities.

LITERARY SOCIETIES

Students in the School of Law are eligible for membership in the two literary societies of the University, Demosthenian and Phi Kappa. The former society has been functioning continuously since 1801 and the latter since 1820. Regular weekly meetings are held at which students have an opportunity to take part in public speaking and debating. The training derived from work done in these societies is of particular value to those preparing themselves for careers at the bar.

PRIZES

JESSIE AND DAN MACDOUGALD MEMORIAL FUND. The Dan MacDougald Memorial Fund was created on August 24, 1953, by gifts from friends, associates, and family of Dan MacDougald, first honor graduate of the Law Class of 1910, to benefit the School of Law and honor Mr. MacDougald's memory. Upon the death of Mrs. Dan MacDougald in 1957, it was decided to honor her also and the name of the Fund was changed accordingly. The Fund is administered by The University of Georgia Foundation and provides for an annual cash award of the net income to the first honor graduate of the School of Law.

THE HARRISON PRIZE. The Harrison Company, law book publishers of Atlanta, offers as a prize to that member of the graduating class who makes the highest average during his third year a copy of *Georgia Court Rules Annotated* including the 1958 Cumulative Pocket Part Supplement.

THE LAWYERS' CO-OPERATIVE PUBLISHING COMPANY PRIZE. The Lawyers' Co-operative Publishing Company offers annually a prize to the member of the classes in Legal Method who makes the highest grade a copy of Ballentine's *College Law Dictionary.*

NATHAN BURKAN MEMORIAL COMPETITION. The American Society of Composers, Authors, and Publishers annually offers cash awards of $150 first prize and $50 second prize to those students of the graduating class submitting the two best papers on "Copyright Law."

PHI DELTA PHI PRIZE. Wilson Inn, the local Chapter of Phi Delta Phi, presents annually to that member of the first year class who makes the highest average during his first year a prize consisting of law books selected by the Inn.

THE REDFEARN PRIZE. Mr. D. H. Redfearn, of the Miami bar, offers an award of $50 to that student writing the best article on "Suggested Changes in the Remedial Laws of Georgia."

THE HENRY SHINN MEMORIAL AWARD. The Alexander H. Stephens Chapter of Phi Alpha Delta National Legal Fraternity annually presents a certificate and a $25 Government Bond to the student writer of the best legal article published during the year. The award is given in honor of Dr. Henry A. Shinn, an esteemed member of the law faculty for many years.

GEORGIA BAR JOURNAL

Each year the faculty selects a Student Editorial Board from the members of the second and third year classes. Members of the Board prepare notes and comments on recent cases for publication in the Georgia Bar Journal, the official publication of the Georgia Bar Association. The student editors are selected on the basis of scholarship. Academic credit is given for work satisfactory to the Faculty Advisers.

COURSES OF INSTRUCTION

The University reserves the right to withdraw any course or seminar for which the registration is not sufficient and to offer any courses and seminars not here listed should sufficient demand arise and adequate teaching facilities and personnel be available.

FIRST YEAR

Business Organizations I

Three hours

Nature of agency; relation to business associations; creation and termination; scope of employment; express and apparent authority; rights and liabilities of principal and agent and third parties; ratification.

Mr. Feild

Seavey and Hall's *Cases on Agency.*

Civil Procedure

Five hours

General theory of actions as remedies; steps in an action; declarations; demurrers, pleas and replications; necessary allegations; parties; venue; process; jurisdiction; trials and verdicts; motions after verdicts.

Mr. Green

Magill and Chadbourn's *Cases on Civil Procedure* (3rd edition).

Contracts I and Contracts II

Eight hours

An introduction to the law of legally enforceable promises including offers and their acceptance; duration and termination of offers; consideration; requisites of contracts under seal; parties affected by contracts; parole evidence rule; statute of frauds; performance of contracts; effect of illegality; discharge of contracts.

Mr. Hosch

Williston's *Cases on Contracts* (6th edition).

Criminal Law and Procedure

Five hours

The historical development of criminal law as well as the analysis of the necessary elements of crimes, and the consideration of the principal classes of crimes; criminal procedure, including: jurisdiction and venue, arrest, preliminary examination and bail, indictment and information, arraignment, motions and pleas, trial and review.

Mr. Saye

Harno's *Cases and Materials on Criminal Law and Procedure* (4th edition).

Domestic Relations

Three hours

Certain important aspects of family law, including contracts to marry, marriage, annulment, separation, and divorce; the relation of husband and wife, and parent and child, with reference to property, support, alimony, and custody.

Mr. Jones

McCurdy's *Cases on Domestic Relations* (4th edition).

LEGAL METHOD

Four hours

Basic methods, sources, and literature of Anglo-American case law and legislation. Sources and forms of American laws; analysis and synthesis of judicial precedents; authoritative hierarchy of precedents; interpretation of statutes and their uses as analogies in case law; problems in the theory of legal reasoning; and the law as a system.

Mr. Henderson and *Mr. Rees*

Dowling, Patterson and Powell's *Cases and Materials on Legal Method* (2nd edition).

PROPERTY I

Four hours

Actual and constructive possession of real and personal property; rights based on possession; liabilities based on possession; disseisin and adverse possession of land; disseisin and adverse possession of chattels; various methods of acquiring title to personal property; liens and pledges; fixtures; some rights incident to the ownership of land.

Mr. Chaffin

Aigler, Bigelow & Powell's *Cases on Property,* Volume I (2nd edition).

TORTS I AND TORTS II

Eight hours

Principles underlying the laws of civil liability for conduct causing damage to others. Assault, battery, and false imprisonment; negligence as a basis for liability; contributory negligence as a defense; injuries by animals; dangerous use of land; violation of statutory duties as a basis of civil liability; deceit; malicious prosecution; libel and slander; invasion of the right of privacy; interference with advantageous relations; proximate causation; justification and excuse.

Mr. Henderson and *Mr. Rees*

Seavey, Keeton and Keeton's *Cases on Torts.*

SECOND YEAR

ADMINISTRATIVE LAW*

Four hours

Administrative power and action and its control by courts; discretion of administrative officials and their power to take summary action; hearings before administrative boards; legal and equitable relief against administrative action; finality of orders of administrative boards.

Mr. Feild

Davis' *Cases on Administrative Law.*

BUSINESS ORGANIZATIONS II*

Four hours

Distinctions between business corporations and non-incorporated business associations. Formation of business corporations; de facto corporations; stock subscriptions; promoters. Relation between business corporations and the stockholders. Partnership and partners; true partnership and partnership by estoppel; partnership property; powers of partners; relation of partners among themselves; dissolution and winding up. Powers and liabilities of business corporations.

Mr. Cohn

Casebook to be announced.

*Registration open to third-year students.

Business Organizations III*

Four hours

Management of business corporations. Conflict of interests in corporate transactions. Rights of stockholders: shares; dividends; pre-emptive right; preferred stock; corporate records; voting rights; minority rights; representative suits. Transfer of stock. Questions of finance. Dissolution. Creditors' rights. Prerequisite is Business Organizations II unless waived by the instructor.

Mr. Cohn

Casebook to be announced.

Comparative Law Seminar*

Three hours

Historical, analytical and critical comparison of the solution of legal problems by common law and civil law states. Practical problems, especially in the fields of contracts, torts, domestic relations, and quasi contracts.

Mr. Cohn

Von Mehren's *The Civil Law System.*

Constitutional Law*

Five hours

Written constitutions and their amendment; power to declare laws unconstitutional; separation of powers; delegations of legislative power; limitations on legislative powers of State and Federal Governments; due process of law; police power; civil rights and their protection; protection afforded to contracts and property.

Mr. Feild

Dowling's *Cases on Constitutional Law* (6th edition).

Equity I and Equity II

Seven hours

The nature of equity jurisdiction, the history of equity jurisprudence; powers of courts of equity; specific performance of contracts; subject-matter of the contract; affirmative and negative contracts; contracts for arbitration and appraisal; damages in addition to or in lieu of specific performance; equitable servitudes; consequences of the right to specific performance; partial performance with compensation; interpleader; discovery and accounting; bills quia timet; bills of peace; joinder of parties and class suits.

Mr. Saye

Casebook to be announced.

Evidence

Five hours

Judicial notice; examination of witnesses; competency and privileges of witnesses; relevancy; direct and circumstantial evidence; illegal obtainment; opinion evidence; hearsay; authentication and production of writings; interpretative evidence; functions of judge and jury; burden of proof; presumptions.

Mr. Green

Morgan, Maguire & Weinstein's *Cases on Evidence* (4th edition).

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*Registration open to third-year students.

GEORGIA PRACTICE AND PROCEDURE

Four hours

Jurisdiction of the trial and appellate courts; pleadings and procedure in all courts; techniques of the lawyer in the preparation and trial of cases.

Mr. Barrow

Selected Materials.

INSURANCE

Four hours

General principles of insurance law, emphasizing life and fire, but considering also accident, marine, and guaranty insurance. Making and construction of the contract; insurable interest; concealment; misrepresentation; warranties; waiver; estoppel; power of agents; measure of recovery; rights of assignees and beneficiaries.

Mr. Feild

Vance's *Cases on Insurance* (4th edition).

INTERNATIONAL LAW SEMINAR*

Four hours

Selected topics on international law; its nature, development and relation to municipal law; sovereignty, birth, recognition and death of nations; continuity of state personality; succession, domain, nationality; international treaties and cooperation and adjustment of differences under special consideration of the Charter of the United Nations.

Mr. Cohn

Casebook to be announced and Selected Materials.

LEGAL ACCOUNTING

Five hours

Principles of accounting, with emphasis on the corporation, including problems of capital, profits, valuation, insolvency, and the analysis of financial statements. Intended especially to provide an accounting background for courses in business units, taxation, trusts and estates for students who have had no previous training in accounting.

Mr. Heckman

Casebook to be announced.

MUNICIPAL CORPORATIONS*

Four hours

The law of Municipal Corporations, including the method of creation; the general municipal powers; municipal action to promote public welfare; including zoning and city planning; appropriation of municipal funds; municipal contracts, municipal indebtedness; municipal torts; acquisitions and disposition of municipal property; municipal taxes and special assessments.

Mr. Barrow

Stason's *Cases on Municipal Corporations* (2nd edition).

NEGOTIABLE INSTRUMENTS*

Four hours

The law of bills, notes and checks according to the Uniform Negotiable Instruments Law; its local application; possible changes under proposed Uniform Commercial Code.

Mr. Cohn

Britton's *Cases on Bills and Notes* (4th edition).

*Registration open to third-year students.

PROPERTY II

Five hours

Land titles, including the various estates in land and the mode of conveyancing at common law and under modern statutes; the execution of deeds and the subject matter thereof; creation of easements by implication; covenants for title; estoppel by deed; general principles of the recordation statutes.

Mr. Chaffin

Aigler, Bigelow & Powell's *Cases on Property*, Volume I (2nd edition).

SALES*

Four hours

Deals with executory and executed contracts for the sale of personal property and with the rights and remedies of buyers and sellers under the common law and Uniform Sales Act. Possible changes under proposed Uniform Code.

Mr. Cohn

Vold's *Cases on Sales* (2nd edition).

THIRD YEAR

APPELLATE BRIEF WRITING

Four hours

Actual practice in writing briefs and arguing cases before Courts of Appeal. Each student prepares a written appeal brief and argues before an appeal court. Members of the faculty preside at the hearings.

Mr. Henderson

Selected Materials.

BANKRUPTCY

Four hours

Historical survey; jurisdiction of the United States and the several states; summary and plenary jurisdiction; administrative officials; petitions and petitioners; bankrupt's discharge; acts of bankruptcy; assets of the estate; claims and distribution; composition procedures.

Mr. Cohn

Hanna and MacLachlan's *Cases on Creditors' Rights* (Consolidated 5th edition).

CONFLICT OF LAWS

Four hours

Jurisdiction over persons and things; domicile as a basis of personal jurisdiction; law governing the creation of personal and property rights; the recognition and enforcement by one state of rights created by the laws of another state, including questions arising out of capacity, marriage, legitimacy, and inheritance; the nature and effect of judgments and decrees, and their enforcement outside the jurisdiction where rendered.

Mr. Hosch

Cheatham, Goodrich, Griswold and Reese, *Cases on Conflict of Laws* (4th edition).

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*Registration open to third-year students.

DAMAGES

Four hours

Types of damages including nominal and exemplary, compensatory, liquidated, direct and consequential; aggravation and mitigation, expenses of litigation; tort, contract, and eminent domain; entirety of recovery.

Mr. Jones

McCormick and Fritz, *Cases on Damages* (2nd edition).

ESTATE PLANNING SEMINAR

Four hours

Primarily a planning and drafting course to train the student in the practical application of the knowledge gained in the Wills, Trusts, Future Interests, and Taxation courses. Problem cases will be assigned and each student will be required to draft the necessary instruments which will best carry out the desired estate plan.

Mr. Chaffin

Shattuck's *An Estate Planner's Handbook* (2nd edition).

FEDERAL JURISDICTION

Four hours

Nature, source and extent of the Federal judicial power. Original, removal, and appellate jurisdiction and procedure in the Federal Courts. State laws as rules of decision. Practice under the Rules of Civil Procedure.

Mr. Green

McCormick and Chadbourn's *Cases on Federal Courts* (3rd edition).

GOVERNMENT REGULATION OF BUSINESS

Four hours

Contracts and combinations in restraint of trade; the Sherman anti-trust act; trade marks and trade names; appropriation of competitor's trade values and the misrepresentation of his product; resale price fixing, and legislation against price discrimination; the public utility concept; valuation and rate-control and regulation of public utilities by State and Federal Administrative commissions.

Mr. Henderson

Handler's *Cases on Trade Regulations* (2nd edition) and Selected Materials.

JURISPRUDENCE

Four hours

Principal theories of law; law and morals; the various social and economic interests, and their competition with one another. How interests may come to be recognized as legal rights and enforced in the courts.

Mr. Henderson

Cohen and Cohen's *Readings in Jurisprudence and Legal Philosophy.*

LABOR LAW

Four hours

History of the labor movement; interference with advantageous relations; inducing breach of contract; termination of relationship and legislative regulation of anti-union contracts. Conduct of a striker, and the right to strike. Federal intervention in labor controversies, including operation of National Labor Relations Board.

Mr. Barrow

Handler's *Cases and Materials on Labor Law.*

Landlord and Tenant

Four hours

The relation of landlord and tenant, including when and under what circumstances the relationship exists; express and implied covenants by lessor and lessee; transfers by lessor and lessee; a study of the various security devices and also of rent; liability for taxes, assessments and repairs; a study of the various methods by which the relationship can be terminated; a brief study of option to purchase agreements and renewals and extensions; the law of the farm.

Mr. Rees

Jacobs *Cases and Materials on Landlord and Tenant* (2nd edition).

Legal Ethics

One hour

A comprehensive study of the organization and ethics of the legal profession based upon a consideration of the problems in the application and interpretation of the canons of legal and judicial ethics.

Mr. Hosch and *Mr. Jones*

Pirsig's *Cases and Materials on The Standards of the Legal Profession.*

Legal Problems Seminar

Four hours

Designed to introduce third year students to theories of law as practised by successful attorneys, the seminar partially equips them for intelligent performance of their duties when entering the profession. A number of problems are submitted by practising lawyers after consultation with the professor. Students are given a problem, prepare memoranda of vital legal and factual aspects involved, and dissuss these with the practitioner and professor in class. Negotiation and reduction to final draftsmanship of the selected writings are discussed.

Mr. Barrow

Selected Materials.

Legislation Seminar

Four hours

A course in the techniques of drafting and interpreting legislation and the mechanics of legislative procedure.

Mr. Green

Cohen's *Materials on Legislation.*

Military Law*

Three hours

Historical and constitutional basis; Judge Advocate Generals' Corps; military justice; habeas corpus; war crimes; laws of war and related international law problems; Federal Tort Claims Act.

Mr. Jones

Manual for Courts-Martial 1951 and Selected Materials.

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*Registration open to second-year students

Office Practice

Four hours

A study of the interpretation and draftsmanship of statutes, administrative regulations, contracts, and corporate charters and bylaws; leases, sales agreements, security transactions, and corporate papers; techniques of student draftsmanship and critique.

Mr. Henderson

Cook's *Cases and Materials on Legal Drafting.* (Revised edition).

Practice Court

Two hours

Acquaints students with actual practice in trial courts. Students are required to prepare pleadings, issue process, file and docket suits, argue cases before court and jury, prepare verdicts, judgments and motions for new trial.

Mr. Green

Selected Materials.

Property III

Four hours

Among the topics presented are: reversions, possibilities of reverter and rights of entry for condition broken, remainders and executory interests, vesting of future interests, limitations to classes and the rule against perpetuities. Prerequisites are Property I and Property II.

Mr. Chaffin

Leach's *Cases and Materials on Future Interests* (2nd edition).

Real Estate Transactions

Four hours

A comprehensive course pertaining to the practical aspects of examination of titles, abstracts of titles, title insurance, real estate sales and real estate loans.

Mr. Birchmore

Selected Materials.

Restitution

Three hours

Defects in the formation and in the performance of contracts with special emphasis on available remedies, legal and equitable, contractual and quasi contractual. The right to the restitution of benefits conferred under mistake both of fact and of law.

Mr. Feild

Laube's *Cases on Quasi Contracts.*

Security Transactions

Four hours

Problems in suretyship and mortgages. Creation of suretyship relation; surety's rights against the principal debtor; defenses of the surety; the subject of security interests in property; the creation of security devices, their assignment and enforcement; priorities; dealers' financing; pledges; conditional sales; trust receipts.

Mr. Green

Sturges' *Cases on Credit Transactions* (4th edition).

Taxation I—Federal Income Tax

Five hours

Correlation of the accounting and legal approach to Federal income tax problems from a study of statutes, regulations, and decisions. The taxation of incomes of individuals, partnerships and fiduciaries, with special attention to the problem of tax deductions and credits.

Mr. Heckman

Federal Tax Law Service.

Taxation II—Federal Taxes Other Than Income Tax

Five hours

Continuation of Taxation I. The legal and accounting problems arising from Federal income tax of corporations, gift taxes and estate taxes.

Mr. Heckman

Federal Tax Law Service.

Trusts

Four hours

Creation and elements of a trust; charitable trusts; resulting and constructive trusts; administration and termination of trusts; the transfer of the beneficial interest and liabilities to third parties.

Mr. Chaffin

Bogert and Hall's *Cases on Trusts* (2nd edition).

Wills and Administration of Estates

Four hours

Testamentary capacity; formalities of wills; effect of contracts; fraud, undue influence, and mistake; revocation and republication; construction and interpretation. Probate jurisdiction; executors and administrators; descent and distribution; claims of creditors; summary proceedings.

Mr. Feild

Mechem and Atkinson, *Cases on Wills and Administration of Estates.* (4th edition).

Workmen's Compensation and Medico-Legal Problems

Four hours

A study of the problems involved in the application and interpretation of modern Workmen's Compensation Acts, with special emphasis on the Georgia statute. A series of lectures covering Medico-legal problems are included.

Mr. Feild

Riesenfeld and Maxwell's *Modern Social Legislation.*

THE SCHOOL OF PHARMACY

KENNETH LEE WATERS, A.B., M.S., Ph.D., *Dean*

GENERAL INFORMATION

The School of Pharmacy was created and became an integral department of the University in 1903. During the first twenty-three years the pharmacy course extended over a period of two years. Students completing the course received the certificate, Graduate in Pharmacy. Beginning in September, 1926, the four-year plan of study leading to the degree, Bachelor of Science in Pharmacy was inaugurated. Effective April 1, 1960 the program was extended to five years, two years of pre-pharmacy being required for admission to the School followed by three professional years.

FUNCTIONS OF THE SCHOOL OF PHARMACY

The primary function of the School of Pharmacy is to train young men and women for positions of responsibility in retail pharmacy or for service in one or more branches of pharmacy. It is felt that this can best be done by co-ordinating the instruction in the cultural and scientific courses with the instruction of a distinctly technical nature. An additional function is to give the graduate a proper conception of his professional responsibilities and thereby enable him to correlate his efforts with those of the medical profession and other public health agencies in the interest of public health.

WOMEN IN PHARMACY

Of the estimated 110,000 pharmacists in the United States approximately 5,000 are women. In recent years about fifteen percent of students enrolled in colleges of pharmacy have been women, and the number is steadily increasing. Women function well in all capacities in pharmacy, particularly in the research and control laboratories of the pharmaceutical manufacturers, in hospital dispensaries, and in the retail practice of the profession.

The suitability of pharmacy as a career for women is just beginning to be fully realized. There are no severe physical requirements which place them at a disadvantage; they can deal with the "drug store public"—a majority of which is composed of women—much more skillfully in many phases of pharmaceutical practice than men. In achieving the ambition of owning one's own business, women face highly favorable conditions in pharmacy, with certain special opportunities found in no other field; and, finally, the fact that the place for women in pharmacy is receiving somewhat belated recognition creates particularly auspicious circumstances for those who now select this profession.

FACILITIES

The School of Pharmacy occupies its own building, formerly known as New College. Laboratories, class rooms, and reading rooms are all well lighted and ventilated. A special feature of the instruction is provided in the Dispensing and Pharmacology laboratories which have been handsomely equipped through funds donated by a friend of the School. The building is

near the Infirmary, the General Library, and the buildings in which Pharmacy students take most of their courses.

MILITARY TRAINING

All physically qualified freshman male students must enroll in and complete two years of basic ROTC with the exception of veterans, non-citizens, and those otherwise exempted. The basic courses are Military Science 1-2 or Air Science 5-6.

Those students who satisfactorily complete the basic training may apply for admission to the Advanced Military Training. It is the mission of the Senior Division of the ROTC to produce junior officers who have the qualities and attributes essential to their progressive and continued development as officers in the Army and Air Force of the United States.

DEGREE OFFERED BY THE SCHOOL OF PHARMACY

B.S. Pharmacy

The School of Pharmacy offers the Bachelor of Science degree in Pharmacy. Students who enter the school prior to April 1, 1960 will be awarded this degree upon the completion of the required 192 quarter hours of academic work, provided the work is completed by the Summer of 1963.

Effective April 1, 1960 member schools of the American Association of Colleges of Pharmacy will require students to complete a minimum of five years for their degree. The program adopted by the School of Pharmacy will consist of two years of pre-pharmacy work followed by three professional years. Member schools of the American Association of Colleges of Pharmacy require a student to spend a minimum of nine quarters in residence. Because of the sequence of courses, this generally requires three calendar years regardless of the amount of advanced credit offered.

Master of Science

The University of Georgia Graduate School offers the degree of Master of Science with a major in Pharmacy, the Bachelor of Science degree in Pharmacy being prerequisite.

A student will be admitted to candidacy for this degree only after he has shown a reading knowledge of either French or German and after he has passed preliminary written or oral examinations given by the School of Pharmacy. These examinations cover in a general way the divisions of pharmacy, pharmaceutical analysis, pharmacology, and organic medicinal chemistry. Candidates will choose one of their minors outside the School of Pharmacy. Application for admission to candidacy must be filed with the Dean of the Graduate School before the first day of classes of the final quarter of full residence.

The thesis must be written, approved by the major professor and placed in the hands of the Dean of the Graduate School at least three weeks before the date of graduation.

ADMISSION TO THE SCHOOL OF PHARMACY

To be admitted to the School of Pharmacy, a student must submit 90 quarter hours of acceptable college credits as outlined in the pre-pharmacy program. Applications should be forwarded to the Director of Admissions in the spring of the year. Students on the University campus should schedule

their work carefully through the pre-pharmacy adviser and should make their applications directly to the Dean of the School of Pharmacy. Selection of students for admission will be based on previous college record of the applicant and his general aptitude for pharmacy. Applicants should have a C plus average before applying for admission. Interview and aptitude tests are required on all entering students. It is desired that arrangements be made for interview and testing at the time the application is submitted.

ADMISSION TO SECOND YEAR CLASS OF THE FOUR YEAR PROGRAM

Students who started their pre-professional work before April 1, 1960 and offer transfer work may still take their work under the four year program, provided they would normally complete the 192 quarter hours of academic work by the summer of 1963.

The number admitted to the second year class is governed by the number of vacancies. To be admitted to the second year class the applicant must submit a minimum of forty quarter hours which count toward the B.S. in Pharmacy degree. Ten hours must be in Chemistry and the remaining 30 chosen from the following: Human Biology, Vertebrate Zoology, English, College Algebra, Physics, Economics, or Political Science. Selection of students for admission to the second year class will be based on the previous collegiate record of the applicant and his general aptitude for Pharmacy. Applicants should have a "C+" average before applying for admission to the second year class.

This School, and other member Schools of the American Association of Colleges of Pharmacy, require a student to spend a minimum of nine quarters in a school of pharmacy. Because of the sequence of courses, this generally requires three calendar years, regardless of the amount of advanced credit offered.

Application for admission to the second year class, and an official transcript of all college work taken must be sent to the Dean of the School of Pharmacy. Applications should be submitted as early as possible. The Committee on Admissions usually makes the initial selection during the Spring Quarter. Interview and pharmacy aptitude tests are required of all entering students. It is desired that arrangements be made for interview and testing at the time application is submitted.

All students are required to take examinations on United States and Georgia History.

PRACTICAL EXPERIENCE

In order to practice pharmacy in the State of Georgia, one year of full time internship must be served under the supervision of a registered pharmacist. Credit may be received only after a student has completed a portion of his pre-pharmacy work. Students are encouraged to serve internship during the summer. *No credit* for internship will be given concurrently with school work.

All intern pharmacists must notify the Joint Secretary, State Examining Boards, 224 State Capital, Atlanta, Ga. The pharmacist supervising the intern must also notify the Joint Secretary that the intern is under his supervision. Termination of any portion of the internship must be reported by the pharmacist and the intern.

All practical experience must be recorded in a notebook in diary form and must be certified by a pharmacist or pharmacists supervising the experience. Upon the completion of the internship, the notebook must be notarized and submitted to the State Board of Pharmacy at the time of the examination.

THE COOPERATIVE PLAN OF STUDY

Under this plan of study the student will make arrangements with a pharmacist in any town in the state to work alternate quarters while attending the University. It will be advantageous to the pharmacist, the student and to the University if students can be placed in pairs. The cooperative plan of study has the advantage over the usual plan of study in that it permits the student to obtain practical experience without interference with his scholastic duties. The plan has the further advantage in that it will enable a student with limited financial support to pay his own way through school.

Requirements of the cooperative plan of study are exactly the same as those for the conventional program. If the student desires to reduce the length of time he must spend at the University, he may take certain nonprofessional courses in an accredited school or University Off Campus Center, but in no case can the residence requirement be reduced below nine quarters.

Only students with proven ability will be accepted for the cooperative plan of study. Evidence of the student's ability will be based on previous college record—or if the applicant has no previous college training—on the recommendation of the University Guidance Center in Athens who will administer an aptitude test to determine the applicant's ability to do satisfactory college work. It is desirable that the applicant have the recommendation of a registered pharmacist.

Applicants interested in the cooperative plan of study should write to the Dean, School of Pharmacy, University of Georgia, Athens, Georgia.

SPECIAL REGULATIONS

Class Attendance—Students in the School of Pharmacy must observe strict absence regulations administered by the Dean of the School of Pharmacy. Absence from classes or other evidence of indifference on the part of a student results in failures; and, since students in the School of Pharmacy are preparing for a definite professional career, indifference to college work will not be condoned. A student who incurs an excessive number of absences may be placed on probation or dismissed from the University.

Special Scholarship Requirements—In addition to the general University requirements relative to scholarship, the following requirement must be met by all pharmacy students:

"Any student registered in the School of Pharmacy who, at the end of the second year, does not have a weighted average of 70 or more in all work taken since entering the School of Pharmacy, will not be entitled to continue in attendance in the School except by special permission of the Pharmacy faculty. Such permission will be granted only in exceptional cases."

A student will not be permitted to register for the same course more than twice within any twelve month school year.

At least a grade of "C" must be earned in all required Pharmacy courses and approved substitutes, before credit for the course will be given toward graduation.

MINIMUM ACADEMIC LOAD—Second and third year professional students registered in the School of Pharmacy must carry a minimum academic load of thirteen credit hours. Failure to earn thirteen credit hours of work in any quarter will place the student on academic probation.

CLASSIFICATION OF STUDENTS—Students who are taking their work under the four year program will be classified in accordance with general University regulations as sophomores, juniors and seniors. Students taking their work under the extended program will be classified as first, second and third year professional students. To be so classified a student must take the required courses and maintain an academic average of C.

LIMITATION OF STUDENT EMPLOYMENT—Since it is realized that the classroom work is only a part of the student's program in securing an education, a student should not accept employment which will interfere with his scholastic program. A student who makes a poor scholastic record will be required to reduce his working load or his scholastic load.

STUDENT AID

There are available a number of assistantships to students working their way through school. These are generally reserved for students who have had one or more quarters in the School of Pharmacy.

A number of scholarships are available to deserving students such as the Lane-Liggett-Rexall Scholarship, the Jacob G. Smith Scholarship, The Woman's Auxiliary of the Georgia Pharmaceutical Association Scholarship, the Georgia Pharmaceutical Association Scholarship and the J. D. Stetson Coleman Scholarship.

The American Foundation for Pharmaceutical Education offers scholarships to deserving students who need financial assistance to complete their education. Third and fourth year students with high academic averages are eligible.

The Women's Auxiliary of the Georgia Pharmaceutical Association lends a small amount of money each year to deserving students in the junior and senior years who are making creditable marks. This loan is handled by the Auxiliary on recommendation of the Dean of the School of Pharmacy.

Other University loan funds are open to pharmacy students. Generally these are made available only to students who have completed their first year's work.

Those sudents planning pre-pharmacy are encouraged to make application for one of the hundred or more general University scholarships. Pre-pharmacy scholarships will also be available in other institutions through the Georgia Pharmaceutical Association.

Applicants should take college board examinations in the fall and submit their application for scholarships shortly after the first of the year.

THE ROBERT CUMMING WILSON AWARD

The Robert Cumming Wilson Award is given to a member of the senior class in pharmacy who excels in scholarship, character and interest in the ideals of pharmacy. The amount of this award depends on the income from

a fund set aside for this purpose by I. Z. Harris, Class of 1915. The minimum is fifty dollars.

ATLANTA DRUG AND CHEMICAL CLUB AWARDS

The Atlanta Drug and Chemical Club annually awards two cash prizes of twenty-five dollars each. One prize is given to an honor student who excels in pharmacy, and the other is given to an honor student who excels in pharmaceutical chemistry. Fourth year students are eligible for the prize.

RHO CHI AWARD

The Alpha Kappa Chapter of Rho Chi, national honorary Pharmaceutical Society, each year offers an award to an outstanding first year student.

THE HARRIS AWARD

The Harris Award is given to a member of the Junior class in pharmacy who excels in scholarship, character and interest in the ideals of pharmacy. The amount of this award depends on the income from a fund set aside for this purpose by I. Z. Harris, Class of 1915. The minimum is $50.

LAMBDA KAPPA SIGMA AWARD

Alpha Kappa Chapter of Lambda Kappa Sigma, women's pharmaceutical sorority, each year offers an award to the outstanding woman student in recognition of her achievements.

OTHER AWARDS

Additional awards are made by pharmaceutical firms in recognition of outstanding achievements in extra-curricular activities and also to students judged outstanding in practical pharmacy. These prizes usually consist of coveted pharmacy reference books.

STUDENT ACTIVITIES

University Activities—Since the School of Pharmacy is an integral part of the University, its students participate in all University educational, fraternal, literary, and social activities.

Student Branch of the American Pharmaceutical Association—In addition to general activities of the University, students in the School of Pharmacy maintain a Student Branch of the American Pharmaceutical Association, the function of which is to establish a closer fraternal and social relationship among students in pharmacy and to broaden their outlook by bringing in speakers on topics related to some health activity.

All students are urged to become active members of this organization.

Georgia Pharmacist—The official publication of the Student Branch of the American Pharmaceutical Association is the *Georgia Pharmacist.* It is published by the students and is mailed to all pharmacists in the State of Georgia and to the alumni of the School of Pharmacy.

Rho Chi—Alpha Kappa Chapter of Rho Chi was established at the University of Georgia in 1949. Charters for chapters of this organization are

granted only to groups in schools or colleges that are members in good standing of the American Association of Colleges of Pharmacy. Eligibility for membership in the Society is based on high attainment in scholarship, character, personality, and leadership.

KAPPA PSI—The professional pharmaceutical fraternity of Kappa Psi, Gamma Phi Chapter, was established at the University of Georgia in 1951. Eligible students are selected by the membership of the fraternity.

PHI DELTA CHI—The professional pharmaceutical fraternity of Phi Delta Chi, Alpha Iota Chapter, was established at the University of Georgia in 1937. After a period of inactivity, this Chapter was reactivated in 1952. Eligible students are selected by the membership of the fraternity.

LAMBDA KAPPA SIGMA—The women's professional pharmaceutical sorority of Lambda Kappa Sigma, Alpha Kappa Chapter, was established in 1954. Eligible women students are selected by the membership of the sorority.

ACCREDITATION

The School of Pharmacy, the University of Georgia, Athens, Georgia, is accredited by the American Council on Pharmaceutical Education.

REQUIRED CURRICULUM

Four-Year Program for Students Starting Prior to April 1, 1960.

NON-PHARMACY COURSES

	Hours
English 101-102*	10
Political Science*	5
College Algebra 100*	5
Economics 105	5
Chemistry 121-122-223*	15
Chemistry 340a-340b	10
Chemistry 380	5
Human Biology 101-102*	10
Zoology 226	5
Bacteriology 350	5
Bacteriology 352	3
Physics 120	5
Non-pharmacy Electives ***	10

FRESHMAN AND SOPHOMORE COURSES

	Hours
Pharmacy 11 — Orientation	1
Pharmacy 12 — Orientation	1
Pharmacy 13 — Orientation	1
Pharmacy 321 — Introductory	3
Pharmacy 322 — Inorganic	3
Pharmacy 323 — Arithmetic**	3
Pharmacy 304 — Pharmacognosy	4
Pharmacy 305 — Pharmacognosy	4

JUNIOR COURSES

	Hours
Pharmacy 331—Junior Dispensing	5
Pharmacy 332—Junior Dispensing	5
Pharmacy 333—Junior Dispensing	5
Pharmacy 310—Accounting	5
Pharmacy 344—Org. Pharm. Chemistry	4
Pharmacy 345—Org. Pharm. Chemistry	4
Pharmacy 376—Biopharmacy	5
Pharmacy 377—Drug Assay	5
Pharmacy 378—Adv. Theoretical Pharm.	3

*First year courses.
**Pharmaceutical arithmetic achievement test prerequisite for this course.
***Non-pharmacy electives should be chosen from the General Education subjects such as History, Psychology, Sociology, English, Languages, etc. Students failing History Qualifying Examination must schedule History 100.

SENIOR COURSES

	Hours
Pharmacy 381a—Pharmacology	4
Pharmacy 382 —Pharmacology	5
Pharmacy 383 —Pharmacology	5
Pharmacy 388 —Law	2
Pharmacy 389 —Law	2
Pharmacy 337 —Senior Dispensing	5
Pharmacy 338—Senior Dispensing	5
Pharmacy 396—Store Operations	4
Pharmacy 397—Store Operations	4
Professional Elective	—

A total of 192 hours, in addition to Military Science or Air Science and Physical Education, are required for graduation. One elective professional course is required, such as Manufacturing or Hospital Pharmacy.

Members of the fourth year class annually visit hospitals, pharmaecutical manufacturers, and wholesale houses. Students are required to participate in such trips.

THE FIVE YEAR PROGRAM

Effective April 1, 1960 member schools of the American Association of Colleges of Pharmacy will require all students entering schools of pharmacy to complete five years of college work before receiving the Bachelor of Science pharmacy degree. Students who are already enrolled in school and who offer pre-pharmacy transfer credit may complete their program under the above four year curriculum provided they will normally complete the 192 quarter hours before the summer of 1963.

PRE-PHARMACY CURRICULUM

KENNETH L. WATERS, *Dean*

MISS MONA MAYHORN, *Pre-Pharmacy Adviser*

In order to be admitted to the professional program in the School of Pharmacy, the student must have completed a minimum of 90 quarter hours of pre-pharmacy courses, exclusive of Basic Military and Physical Education. Students with high academic average, having 90 hours of credit may be admitted with not more than fifteen quarter hours of deficiencies in required courses, provided such deficiencies may be completed during the first professional year.

	Qtr. Hrs.
Chemistry 121-122-223	15
English (Must include 101 & 102)	15
Human Biology 101-102	10
Zoology 226	5
History*	5
Mathematics 100-101	10
Economics 105	5
Political Science 101	5
Physics 120	5
General Electives**	15
Military 1-2, Air Science 5-6	12
Physical Education for Men	0
Physical Education for Women	10
Total	100-102

*The History Qualifying Examinations will not fulfill this requirement.

**Electives should be chosen from the Humanities, Social Sciences, Psychology, or Lanugagues and should not be Science, Business or applied courses. Proficiency in typing will be required for admission to the second professional year but will not be credited toward electives.

Application to the School of Pharmacy will normally be made by April 1. Those students taking pre-pharmacy work on the University campus will normally make application to the Dean of the School of Pharmacy when they have completed five quarters of work.

Candidates will be expected to have satisfactorily completed the above program prior to the date of starting professional courses.

PROFESSIONAL PROGRAM

The professional program of the five year curriculum will be essentially the same as required for the sophomore, junior and senior years under the four year program. There will be certain variations and course rearrangements. Under this program there will be greater opportunity to select electives in the areas of Hospital Pharmacy, Retail Pharmacy, Manufacturing Pharmacy, Pharmaceutical Research and courses supporting these fields.

FIRST YEAR

	Hours		Hours
Pharmacy Orientation	3	Pharmacy Preparations	3
Pharmacy Arithmetic*	3	Pharmacy Law	3
Chemistry 340a-b	10	Chemistry 380	5
Physical Pharmacy	3	Physics 228	5
Inorganic Pharmacy	3	Electives	5
Bacteriology 350	5		
		Total	48

SECOND YEAR**

	Hours		Hours
Junior Dispensing	15	Organic Medicinal Chemistry	8
Biopharmacy	5	Bacteriology 352	3
Pharmacognosy	8	Pharmaceutical Accounting	5
Introductory Pharmacology	4		
Pharmaceutical Analysis	5	Total	53

THIRD YEAR

	Hours		Hours
Pharmacology	14	Electives	11
Senior Dispensing	10	Pharmacy Senior Trips***	0
Pharmacy Management	8		
Professional Elective	6	Total	49

DESCRIPTION OF COURSES

The University reserves the right to withdraw any courses for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

*Students must satisfactorily complete pharmaceutical arithmetic achievement test as a prerequisite for this course.

**Proficiency in typing will be required for admission to the second professional year.

***Students annually visit hospitals, pharmaceutical manufacturers and wholesale houses and are required to participate in such trips.

Unless otherwise indicated all courses meet five times a week and carry five hours credit.

PHARMACY

11-12-13. PHARMACY ORIENTATION. 3 hours. (1 hour each quarter). *The Staff.*

Lectures will serve to initiate the student into the profession of pharmacy. The history and ethics of the profession will be discussed. A study of pharmacy literature, and the system of weights and measures will be introduced.

321. INTRODUCTORY PHARMACY. 3 hours. Prerequisite: Concurrent registration in Chemistry 340a. *Mr. Entrekin.*

A discussion of the technical operation of pharmacy, including definitions and official preparations.

322. INORGANIC PHARMACY. 3 hours. Prerequisites: Chemistry 340a, and Pharmacy 321. *Miss Mayhorn.*

The inorganic preparations of pharmacy with the special application of chemistry to the official preparations.

323. PHARMACEUTICAL ARITHMETIC. 3 hours. Prerequisite: Pharmacy 11. *Mr. Whitworth.*

(Those students showing deficiency in the pharmaceutical arithmetic achievement tests will be required to take remedial work.)

A study of calculations involved in the practice of the profession of pharmacy.

331-332-333. JUNIOR DISPENSING. 15 hours. (5 hours each quarter). Three hours lecture and six hours laboratory weekly. Prerequisites: Junior classification. *Mr. Entrekin* and *Assistant.*

The general consideration of the underlying principles of prescription compounding. Laboratory work will involve the various types of preparations, and the filling of simple prescriptions. A knowledge of typing is required for this course.

337-338. SENIOR DISPENSING. 10 hours (5 hours each quarter). Two hours lecture and nine hours laboratory weekly. Prerequisite: Senior classification. *Mr. Hartman* and *Assistant.*

A thorough study of prescription compounding, with emphasis on prescription reading and incompatabilities. The filling of prescriptions received by telephone is stressed. The lectures present and discuss the problems confronting the practicing pharmacist. A knowledge of typing is required for this course.

378. ADVANCED THEORETICAL PHARMACY. 3 hours. Prerequisite: Physics 120, Chemistry 380, Pharmacy 321-2-3. Two lectures and three-hour laboratory. *Mr. Whitworth.*

A study of certain theoretical concepts of pharmaceutical preparation, including physico-chemical considerations of stability and of manufacturing.

395. HOUSEHOLD AND ANIMAL HEALTH PRODUCTS. (Elective). 3 hours. Three hours lecture and recitation. Prerequisite: Fourth year classification. *The Staff.*

The study of fumigants, rodenticides, insecticides, fungicides, weedicides, parasiticides and toxins, serums, vaccines and related products commonly sold in the drug store. Ethics, economic and legal aspects will be stressed.

398. UNDERGRADUATE RESEARCH PROBLEM. (Elective). 3 to 5 hours. Prerequisites: Fourth year classification with an average grade of "B." *The Staff.*

An introduction to research. The course is designed to acquaint the student with the techniques of research. A problem will be assigned and the student will be expected to do library and laboratory work necessary to prepare an acceptable report.

521. SPECIAL TOPICS IN PHARMACY. 2 hours. Two lecture periods or the equivalent in laboratory periods. *Mr. Hartman* and *Mr. Entrekin.*

522. PHARMACEUTICAL TECHNOLOGY. Two lecture and nine laboratory hours weekly. *Mr. Millikan, Mr. Hartman,* and *Mr. Entrekin.*

Lectures to include a study of different equipment used in pharmaceutical manufacturing. Laboratory work to involve pilot plant scale manufacturing.

523. ADVANCED PHARMACEUTICAL TECHNOLOGY. Two lecture and nine laboratory hours weekly. Prerequisite: Pharmacy 522. *Mr. Millikan, Mr. Hartman,* and *Mr. Entrekin.*

Lecture and laboratory work will place special emphasis on the more complicated procedures encountered in manufacturing. Such topics as enteric coating, tablet granulations, special and parenteral solutions, and organization of pharmaceutical manufacturing establishments will be taken up.

524. HOSPITAL PHARMACY. 3 hours. Two hours lecture and three hours laboratory weekly. Prerequisite: Senior classification. *Mr. May.*

A course designed to acquaint the student with the operation of a hospital pharmacy.

PHARMACOGNOSY

304-305. PHARMACOGNOSY. 8 hours (4 hours each quarter). Four hours lecture and recitation. Prerequisite: Chemistry 340a or concurrent registration and ten hours of Biology. *The Staff.*

A study of the history, distribution, collection, commerce, preservation, classification, active constituents, titles, synonyms, definitions, official preparations, therapeutic use and common proprietaries of crude vegetable drugs. Specimens are furnished each student for macroscopical and organoleptic identification.

PHARMACOLOGY

381-382-383. PHARMACOLOGY. 15 hours (5 hours each quarter). Four hours lecture and three hours laboratory weekly. Prerequisite: Zoology 226, Pharmacy 331 and 376. *Mr. Wade.*

An introduction to pharmacology dealing with the modification of the normal physiological process of the body by the presence of the more common drugs used in medicine. Drugs from the United States Pharmacopoeia, National Formulary, and selected items from the New and Non-Official Drugs are discussed according to pharmacological action, toxicology, and therapeutic application. Some attention will be given to problems related to public health and first aid.

PHARMACEUTICAL ADMINISTRATION

310. PHARMACEUTICAL ACCOUNTING. Five hours lecture and recitation. *Business Administration Staff.*

Elementary accounting principles and procedures suitable for small and medium size drug stores operated by independent owners.

388. PHARMACEUTICAL LAW. 2 hours. Two hours lecture and recitation. Prerequisite: Pharmacy 331. *Mr. Waters.*

A review of the various laws involved in pharmaceutical prescription practice.

389. PHARMACEUTICAL LAW. 2 hours. Two hours lecture and recitation. Prerequisite: Senior classification. *Mr. Waters.*

A study of the state and federal regulations including organization enforcement procedures. Consideration is also given to case histories, involving negligence and malpractice.

396-397. DRUG STORE OPERATIONS. 8 hours. (4 hours each quarter). Three hours lecture and three hours laboratory weekly. Prerequisites: Senior classification, Pharmacy 310, Economics 105. *Mr. Braucher* and *Assistant.*

A study of the methods, policies and practices pertaining to modern merchandising techniques, as buying, pricing, sales promotion, etc., the planning of lay-out and physical equipment that has proven successful in drug stores of America. This course will also cover the principles of stock control and advertising.

ECONOMICS 105. PRINCIPLES OF ECONOMICS. *The Economics Staff.*

A description and critical analysis of the organization of modern society from an economic point of view, with a brief introduction to the theory of value and distribution.

SPEECH 103. ORAL COMMUNICATION.* 3 hours. *Speech Staff.*

Objective analysis of individual speech habits and an individually planned study of appropriate drills and activities for improving the skills of everyday speech.

*Elective credit—highly recommended for all students.

BUSINESS ADMINISTRATION 7. PERSONAL TYPING*. No academic credit (five periods a week). *Business Administration Staff.*

An introductory course in typewriting designed to teach in a minimum of time typewriting for personal use. Should be taken before registering for Pharmacy 337.

BUSINESS ADMINISTRATION 108. BUSINESS CORRESPONDENCE.* 3 hours. *Business Administration Staff.*

Qualities and principles of effective business letter writing; practice in writing various types of letters and reports.

JOURNALISM 577. PUBLIC RELATIONS (PUBLICITY).* *Journalism Staff.*

A study of problems and techniques. Analyses of publicity campaigns and discussions of the ways in which various media can be utilized.

PHARMACEUTICAL CHEMISTRY

344-345. ORGANIC MEDICINAL CHEMISTRY. 8 hours. (4 hours each quarter). Prerequisites: Pharmacy 321-322-323 and Chemistry 340a-b. *Mr. LaRocca.*

A study of the chemistry of important pharmaceutical organic products to include sources, properties, reactions, and methods of production, with the general consideration between relationship of structure and activity of natural and synthetic organic medicinals which are used in pharmaceutical practice.

376. BIOPHARMACY. Three hours lecture, six hours laboratory. Prerequisites: Chemistry 380, Physics 120, Pharmacy 305. *Mr. Millikan* and *Asstants.*

A study of biochemistry and those problems closely related to pharmacy which are of importance to the practicing pharmacist.

377. PHARMACEUTICAL ASSAY. Two hours lecture, nine hours laboratory. Prerequisites: Physics 120, Pharmacy 321-2-3, Chemistry 380. *Mr. Millikan* and *Assistants.*

A study of the official and standard methods of assay of some common pharmaceuticals. The student is familiarized with instrumentation procedures as used by the modern pharmaceutical firm.

The following courses in the Pharmacy Curriculum are taught by the faculty of the College of Arts and Sciences. A description of the courses may be found in the College of Arts and Sciences section of this Catalogue.

BACTERIOLOGY 350, General Microbiology; BACTERIOLOGY 352, Microbiology and Disease; CHEMISTRY 121-122, Inorganic Chemistry; CHEMISTRY 223, Qualitative Inorganic Analysis; CHEMISTRY 340a-b, Organic Chemistry; CHEMISTRY 380, Quantitative Inorganic Analysis; ENGLISH 101-102, Composition; MATHEMATICS 100, College Algebra; PHYSICS 120, Physics Survey; POLITICAL SCIENCE 101, American Government; ZOOLOGY 101-102, Human Biology; ZOOLOGY 226, General Zoology.

GRADUATE COURSES

Unless otherwise specified, all laboratory periods are three hours.

For any graduate course in pharmacy the prerequisites are two senior division courses in pharmacy or related subjects, plus any specified prerequisites.

721. SPECIAL TOPICS IN PHARMACY. 2 hours. *Mr. Hartman* and *Mr. Entrekin.*

A study of newer pharmaceutical preparations including the detailed examination of preparations involving chemical reactions and special assigned topics.

722. PHARMACEUTICAL TECHNOLOGY. Two lectures and six laboratory hours. *Mr. Hartman, Mr. Millikan,* and *Mr. Entrekin.*

Lectures to include a study of different equipment used in pharmaceutical manufacturing. Laboratory work to involve pilot plant scale manufacturing.

*Elective credit—highly recommended for all students.

723. Advanced Pharmaceutical Technology. Prerequisite: Pharmacy (522) 722. Two lectures and six laboratory hours. Offered in alternate years. *Mr. Waters, Mr. Millikan.*

Lecture and laboratory work will place special emphasis on the more complicated procedures encountered in manufacturing. Such topics as enteric coating, tablet granulations, special and parenteral solutions, and organizations of pharmaceutical manufacturing establishments will be taken up.

724. Hospital Pharmacy. 3 hours. Two hours lecture and three hours laboratory. *Mr. Hartman* and *Mr. May.*

A course designed to acquaint the student with the operation of a hospital-pharmacy.

810. Pharmaceutical Control and Analysis. Two lectures and six hours laboratory. *Mr. Millikan, Mr. Hartman.*

Lectures, reading and analytical procedures of more complicated nature taken from U.S.P., N.F., and A.O.A.C.

811-812. Synthetic Medicinal Products. 10 hours. Five hours lecture a quarter for two quarters. *Mr. LaRocca.*

The chemistry and synthesis of anti-histaminics, etc. Special emphasis to be placed on correlation of structure with physiological activity and industrial application of processes.

814-815. Organic Pharmaceutical Synthesis. 5 to 10 hours. One conference and eight laboratory hours. *Mr. LaRocca, Mr. Waters.*

Application of synthetic procedures in the preparation of various medicinal chemicals and their intermediates.

831. Studies in Pharmacodynamics. Prerequisite: Pharmacy 381. *Mr. Wade.*

The procedures involved in modern research in pharmacological analysis and in the determination of the site of action and nature of action of drugs through participation in departmental researches upon problems in pharmacology.

832. Methods in Pharmacological Research. Prerequisite: Pharmacy 381. *Mr. Wade.*

Conferences, library projects, and laboratory work designed to prepare the graduate student for professional service in the field of pharmacology.

Address all correspondence to the Dean, School of Pharmacy, University of Georgia, Athens, Georgia.

THE COLLEGE OF AGRICULTURE

ADMINISTRATIVE OFFICERS

CALVIN CLYDE MURRAY, B.S., M.S., Ph.D., *Dean and Coordinator of Agriculture.*

GEORGE HARRIS KING, B.S.A., M.S.A., *Director of Experiment Stations.*

WILLIAM ABNER SUTTON, B.S.A., *Director of the Agricultural Extension Service.*

ROBERT STEVENSON WHEELER, B.S., Ph.D., *Director of Resident Instruction.*

FRANCES LEONORA ANDERSON, B.S.H.E., M.Ed., *District Agent (Extension).*

JOHN EDWARD BAILEY, B.S.A., *Horticulturist* and *Superintendent of the Mountain Experiment Station* (Blairsville, Georgia).

NELLIE CLYDE BOYD, B.S., M.S., *District Agent (Extension).*

ORIEN LEFRETTS BROOKS, B.S.A., *Branch Station Superintendent* (Midville, Georgia).

EDMUND BROADUS BROWNE, B.S., M.S., Ph.D., *Director of the College Experiment Station.*

JOSEPH PLEDGER CARMICHAEL, A.B.J., M.S.A., *Editor (Extension).*

SIDNEY GRIGSBY CHANDLER, B.S.A., *Chairman Extension Training (Extension).*

HOYT EDWIN CHASTAIN, B.S.A., *District Agent Chairman (Extension).*

ARTHUR FRANKLIN DARDEN, B.S.C., *Fiscal Officer (Extension).*

GERALD YARBROUGH DUKE, B.S.A., *District Agent Chairman (Extension).*

BYRON DYER, B.S.A., M.S.A., *District Agent Chairman (Extension).*

RICHARD LAWRENCE DYER, *Assistant Comptroller* (Tifton, Georgia).

LINTON WEBSTER EBERHARDT, JR., B.S.F., *Associate Director of the Agricultural Extension Service.*

WILLIAM THOMAS FULLILOVE, B.S.A., *Agricultural Economist* and *Director of the Georgia Experiment Station* (Experiment, Georgia).

JULIA GRANT, B.B.A., *Assistant Comptroller* (Experiment, Georgia).

JESSIE H. HARDY, B.S.H.E., *District Agent (Extension).*

MARTHA ROBERTS HARRISON, B.S.H.E., M.S., *District Agent (Extension).*

DEAN DILLARD HAYES, B.S.A., *Branch Station Superintendent* (Calhoun, Georgia).

FRANK PICKETT KING, B.S.A., M.S.A., Ph.D., *Director of the Georgia Coastal Plain Experiment Station* (Tifton, Georgia).

WILLIAM ANSON KING, B.S.A., *District Agent Chairman (Extension).*

LORA MARGUERITE LAINE, B.S.H.E., *District Agent (Extension).*

NEAL DUNCAN MCRAINEY, B.S.A., *Branch Station Superintendent* (Plains, Georgia).

LOUISE MEEKS, B.S.H.E., *District Agent (Extension).*

CHARLES ROGERS O'KELLEY, M.S.A., *State Agricultural Leader (Extension).*

JOEL CONDOR RICHARDSON, B.S.A., *District Agent Chairman (Extension).*

ROBERT JAMES RICHARDSON, B.S.A., *4-H Club Leader, Young Men and Women (Extension).*

EDDYE BELLE ROSS, B.S.H.E., *State Home Demonstration Leader (Extension).*

EDNA SUE STANFORD, B.S.H.E., *District Agent (Extension).*

KENNETH TREANOR, B.S.A., *Director Branch Experiment Stations.*

THOMAS LAURICE WALTON, B.S.A., M.S.A., *State 4-H Club Leader (Extension).*

LLOYD CLAIBORNE WESTBROOK, B.S.A., *District Agent Chairman (Extension).*

GENERAL INFORMATION

Each state has one institution of higher learning known as a Land-Grant College or University which is approved by officials of the Federal Government for giving college instruction in agriculture and related fields. In Georgia that institution is the University of Georgia, of which the College of Agriculture is an integral part.

The University of Georgia is a member of the American Association of Land-Grant Colleges and Universities. It has been approved by the United States Commissioner of Education for giving college instruction in agriculture and agricultural engineering. The University receives grants from the Federal Government to aid in financing its educational program in these fields. It is officially recognized and approved by the United States Department of Agriculture and other agencies of the Federal Government concerned with farming and related occupations.

The College of Agriculture provides a coordinated and integrated program of research, college teaching, and extension services. It embraces the agricultural experiment stations and the Agricultural Extension Service. Responsibility for administration is vested in the Dean and Coordinator, who is responsible to the President of the University. Under the Dean and Coordinator there are three directors, as follows: a director in charge of instruction; a director in charge of extension work; and a director in charge of experiment stations. At each of the experiment stations, including Athens, Experiment, and Tifton, there is a director in charge.

In the College of Agriculture there are eleven subject matter fields or divisions, each of which embraces research, teaching, and extension, and each of which is in the charge of a chairman. These divisions are: agronomy, agricultural economics, agricultural engineering, animal husbandry, dairy, entomology, food technology, horticulture, landscape architecture, plant pathology, and poultry. In addition, there are several schools and colleges with which relationships have been established for conducting programs including teaching, research, and extension services; these include fields such as bacteriology, botany, chemistry, education, entomology, forestry, home economics, and veterinary medicine.

COURSES AND DEGREES

The College of Agriculture offers degree courses in agriculture, agricultural engineering, and landscape architecture. It is also recommended that students seeking admission to the School of Veterinary Medicine register in the College of Agriculture while enrolled in the pre-veterinary program.

Upon completion of the twelve-quarter course outlined, students registered in agriculture may receive the degree of Bachelor of Science in Agriculture, and students in agricultural engineering, the degree of Bachelor of Science in Agricultural Engineering.

The Department of Landscape Architecture, a department in the College of Agriculture, offers two degree courses; one, the professional degree B.L.A.—Bachelor of Landscape Architecture; the other, B.S.L.A.—Bachelor of Science in Landscape Architecture.

The Master of Science degree is offered in agriculture, agricultural engineering, and landscape architecture. The Ph.D. degree is offered in Plant Sciences, Animal Nutrition, Dairy Manufacturing, and Food Technology. For further information concerning these degrees, consult the Graduate Bulletin.

Many short courses of a practical and intensive nature are offered by the College of Agriculture. Announcements of these courses will be made throughout the year. Any course will be offered for which there is sufficient demand. A citizen of Georgia desiring to take any such course should write to the Dean of the College of Agriculture, indicating the field or problem in which instruction is desired.

ADMISSION REQUIREMENTS FOR VETERINARY MEDICINE

In order to matriculate in the School of Veterinary Medicine, a student must present a minimum of 89 quarter hours' credit, exclusive of Basic Military and Physical Education, with a grade of C or better.

To meet these requirements, a student may register in the College of Agriculture and take the following courses:

English 101, 102
Speech 108
Botany 121, 122
Zoology 225, 226
Chemistry 121, 122, 340a, 340b
Animal Husbandry 101,
Dairy 103, Poultry 160

*History 100
Physics 120
*Political Science 101
Animal Husbandry 358
Plant Pathology 358 or Zoology 401
Mathematics 100, 101
Military or Air Science (six quarters)
Physical Education (six quarters)

All candidates for admission into the entering class in September each year will be required to take during the preceding spring, a veterinary medical aptitude test. The results of this test will become a part of the student's credentials for admittance into the School of Veterinary Medicine.

Any student who is registered in the College of Agriculture may, upon completion of pre-veterinary requirements, continue with the agricultural curriculum, should he fail to gain admittance to the School of Veterinary Medicine. Such students will be able to apply all credits earned to requirements for the B.S.A. degree.

B.S.A. DEGREE IN CONJUNCTION WITH D.V.M .DEGREE

A student in the School of Veterinary Medicine may in conjunction with his work toward the D.V.M. degree, complete the requirements for the B.S.A. degree by taking three quarters of additional work prior to, during or subsequent to his work in the School of Veterinary Medicine. A major

*These requirements may be satisfied by passing qualifying examinations in lieu of taking courses of instruction.

in Animal Husbandry, Dairy, Entomology or Poultry would require the least amount of extra course work on the part of the student.

It is preferred that students working for both the B.S.A. and D.V.M. degrees complete three years of pre-veterinary work in the College of Agriculture. The first two years are the same as those for B.S.A. students except Chemistry 340a and b are substituted for Chemistry 260 and one elective in the sophomore year. The third year should be directed toward completing courses for the major, one minor and certain science selections. The B.S.A. would be granted after the student had completed the first year in the School of Veterinary Medicine.

AGRICULTURAL CURRICULUM FOR THE B.S.A. DEGREE

The curriculum for the freshman and sophomore years provides a core of general education and basic science courses as well as introductory courses in agricultural science. The curriculum is designed to allow flexibility of choice of agricultural and non-agricultural electives. It is also designed so that students may transfer to the College of Agriculture from non-agricultural colleges without loss of time or credit if their credits include the equivalent of the general education and basic science portion of this curriculum.

Students in the College of Agriculture working for the degree of Bachelor of Science in Agriculture may major in the following departments: (1) *Agricultural Chemistry;* (2) *Agricultural Economics;* (3) *Agricultural Extension Training;* (4) *Agronomy,* including soils; (5) *Animal Husbandry;* (6) *Botany;* (7) *Dairy;* (8) *Entomology;* (9) *Food Technology;* (10) *General Agriculture;* (11) *Horticulture;* (12) *Plant Pathology and Plant Breeding;* (13) *Poultry;* and (14) *Agricultural Education.*

There is a demand for College of Agriculture graduates trained in the various media of communications. Because of this, arrangements have been made with the School of Journalism for students in any department in the College of Agriculture to obtain the equivalent of a major in agricultural journalism. This is possible because of the flexibility permitted in the selection of minor courses and general electives.

Generally the courses in agricultural journalism will be selected from the following journalism courses: 1, 350 or 368—Introductory Courses; 456—Magazines; 557—Advertising; 558—Feature Writing; 559—Book Reviewing; 577—Public Relations; 580—Radio and Television; 581—Radio and Television News; 582—Radio and Television Programming.

A student who majors in one of the subject matter departments in the College of Agriculture has a choice of following a program or option in Agricultural Science or in Agricultural Administration.

The Agricultural Science Option. This program is designed to provide training in basic and applied sciences and to prepare students for graduate study, teaching, extension, research, farming, or for employment in State and Federal agencies and in private industry.

The Agricultural Administration Option. This option providing training in technical agriculture and in business management is designed to prepare students for employment in agri-business. Agri-business firms process, package, transport, finance, store and merchandise farm products, others sell feed, seed, fertilizer, drugs, vaccines, insecticides, machinery and other supplies to farmers.

BACHELOR OF SCIENCE IN AGRICULTURE

FRESHMAN AND SOPHOMORE YEARS

	Hours	
Chemistry 121, 122, 260	15	
Botany 121, 122, Zoology 225, 226 (any three)	15	
English 101, 102, Speech 108	15	
Physics 120	5	
Mathematics 100	5	
*Political Science 101, History 100	10	(0)
Agriculture Courses (Minimum)	16	
**Electives or Special Requirements	10	(20)
Basic Air or Military Science, Physical Education 1-2	12	
Total	103	

JUNIOR AND SENIOR REQUIREMENTS

A. Administration Option

MAJOR ..... 20 hours
In Agricultural Economics, Agricultural Extension Training, Agronomy, Animal Husbandry, Dairy, Entomology, Food Technology, Horticulture, Plant Pathology, Plant Breeding or Poultry.

AGRICULTURAL ECONOMICS: 304, 408, 467 ..... 15 hours

BUSINESS ADMINISTRATION: 210, 370 and 10 additional hours approved by faculty advisor ..... 20 hours

SCIENCE SELECTIONS ..... 10 hours
Bacteriology 350, 461, Botany 375, 380, Agronomy 423, Chemistry 223, 380, 451, Economics 105, 312, Geology 125, Mathematics 101, 210, 356, Sociology 431, 433, Plant Pathology 353, 358, Entomology 374, Zoology 390.

SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312, Agricultural Economics 469 or Business Administration 330 ..... 10 hours

ELECTIVES AND/OR ADDITIONAL SPECIAL REQUIREMENTS ..... 30 hours

TOTAL JUNIOR-SENIOR REQUIREMENTS ..... 105 hours

TOTAL FRESHMAN-SOPHOMORE REQUIREMENTS ..... 91 hours***

TOTAL COURSE REQUIREMENTS ..... 196 hours***

JUNIOR AND SENIOR REQUIREMENTS

B. Science Option

MAJOR ..... 20 Hours
In Agricultural Chemistry, Agricultural Economics, Agricultural Education, Agricultural Extension Training, Agronomy, Animal Husbandry, Botany, Dairy, Entomology, Food Technology, General Agriculture, Horticulture, Plant Pathology, Plant Breeding or Poultry.

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*May be satisfied by passing qualifying examinations.

**Since no credits are earned by passing the Constitutions and History qualifying examinations, elective hours range from 10-20.

***Exclusive of required courses Air 5-6 or Military 1-2 and Physical Education 1-2.

SCIENCE SELECTIONS ..... 25 Hours
Bacteriology 350, 461, Botany 375, 380, Agronomy 423, Chemistry 223, 380, 451, Economics 105, 312, Geology 125, Mathematics 101, 210, 356, Sociology 431, 433, Plant Pathology 353, 358, Entomology 374, Zoology 390.

MINOR 1 ..... 10 Hours
May be in any one department of the University.

MINOR 2 ..... 10 Hours
Must be in the College of Agriculture.

SPECIAL REQUIREMENTS—not more than ..... 20 Hours

GENERAL ELECTIVES—not less than ..... 20 Hours

TOTAL JUNIOR-SENIOR REQUIREMENTS ..... 105 Hours

TOTAL FRESHMAN-SOPHOMORE REQUIREMENTS ..... 91 Hours*

TOTAL COURSE REQUIREMENTS ..... 196 Hours*

ORIENTATION COURSE FOR COLLEGE OF AGRICULTURE FRESHMEN

101. (AGRICULTURE) ORIENTATION. 1 hour. *Mr. Wheeler.*

A course designed to aid agricultural freshmen adjust to college life and to better understand the occupational opportunities available to graduates. The functions of the total university, use of libraries, study procedures, organization and functions of the College, state and federal agricultural agencies, personality development, social behavior, student activities, planning a program of study and career opportunities are discussed.

COOPERATIVE GRADUATE COURSE AMONG DEPARTMENTS IN COLLEGE OF AGRICULTURE

830. RADIATION PRINCIPLES IN AGRICULTURE. Prerequisites: Chemistry 651, Botany 380 or Poultry 401 or Physics 228. Two lectures and two 3-hour laboratories. *Mr. Edwards, Mr. Hamdy, Mr. Lassiter* and *Mr. Miller.*

Principles and techniques of radiochemistry and radiobiology as applied to agriculture.

OPPORTUNITIES FOR SPECIALIZATION

Concentrations offered by the departments of the College of Agriculture and related departments in which agricultural students may major, together with brief statements concerning the opportunities available in each field of specialization, are shown under appropriate departmental headings.

The basic curricula within either the Agricultural Administration or Agricultural Science options, given previously, outline requirements for graduation and suggest departments in which students may specialize.

Each student should consult with the head of the department in which he intends to do his major work for a list of the freshman-sophomore courses required or suggested for a major in that department. A complete list of freshman-sophomore courses required by majors in Agricultural Education is given under the listings of that department.

In order to acquaint students with the fields in which one may specialize, the opportunities in each, and the courses recommended by the several departments, the following *concentration programs* have been developed by the departments in which agricultural students may major during the junior

*Exclusive of the required courses Military 1-2 or Air 5-6, and Physical Education 1-2.

and senior years. These are suggestive rather than definite requirements. The concentration for each student is an individual program, arranged in consultation with the members of the staff in the department in which the major is taken. In the main, however, the following programs, as presented by the several departments, include the courses which the majority of students will elect with the selection of the field of specialization.

Unless otherwise indicated, all courses are offered in the College of Agriculture buildings on the South Campus of the University.

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses will meet five times a week and carry five hours' credit.

AGRICULTURAL CHEMISTRY*

(Chemistry Building, South Campus)

Instruction in this division of the Department of Chemistry is designed primarily to fit the needs of agricultural students. By means of lectures, recitations and laboratory work, students are taught the fundamental chemical principles underlying and controlling plant and animal life.

The course for majors in agricultural chemistry is designed to prepare students for professional work in agricultural experiment stations, in fertilizer and feed control laboratories, and similar professional positions in allied industries.

CONCENTRATION IN AGRICULTURAL CHEMISTRY

This concentration is based upon generally accepted undergraduate training in Chemistry for professional purposes and for those who plan to do graduate work.

MAJOR: Chemistry 380, 340a, 340b, and 441	20 Hours
FIRST MINOR: Mathematics 254 and 255	10 Hours
SECOND MINOR: Chemistry 451 and 560 or 480	10 Hours
SCIENCE SELECTIONS: Selected in consultation with Head of the Division	25 Hours
SPECIAL REQUIREMENTS: Physics 128 and 229, Mathematics 101 and 110, a foreign language	30 Hours
ELECTIVES:	10 Hours

Note: Chemistry 223 is required in the sophomore year.

CHEMISTRY

121, 122. GENERAL CHEMISTRY. Four lectures or recitations and one laboratory period per week each quarter. *The Staff* and *Assistants*.

The first course covers the chemistry of the non-metallic elements, including a systematic treatment of chemical principles and their applications. The second course is a continuation of the first course, including a general survey of the metallic elements.

223. QUALITATIVE INORGANIC ANALYSIS. Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 122. *Mr. Waggoner, Mr. Whitehead, Mr. Wilder*, and *Assistants*.

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

*Fundamental Chemistry courses are a subdivision of the Department of Chemistry of the College of Arts and Sciences. For other offerings see the section of the College of Arts and Sciences.

260. AGRICULTURAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 122, or with consent of Head of Department. *Mr. Coggin, Mr. Philbrook, Mr. Wilder*, and *Assistants.*

A brief terminal introduction to aliphatic organic chemistry with material of special interest to students of Agriculture, Home Economics, and Forestry.

380. QUANTITATIVE INORGANIC ANALYSIS. Two lectures and three three-hour laboratory periods. Prerequisite: Chemistry 223. *Mr. Whitehead* and *Assistants.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

451. PHYSIOLOGICAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 260 and a course in botany or biology or zoology or animal husbandry or poultry. *Mr. Coggin, Mr. Cormier*, and *Mr. McRorie.*

Fundamental principles of physiological chemistry in the animal body, including the chemistry of foods, digestion, metabolism and excretions.

852. PHYSIOLOGICAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 651. *Mr. Coggin, Mr. Cormier*, or *Mr. McRorie.*

The metabolism of carbohydrates, lipids ,and proteins.

855.1. PHYTOCHEMISTRY. Three lectures. Prerequisite: Chemistry 451, and one course in botany. *Mr. Cormier* or *Mr. McRorie.*

A study of the compounds and chemical principles encountered in plants.

DEPARTMENT OF AGRICULTURAL ECONOMICS

(Livestock - Poultry Building, South Campus)

Division Chairman and Head: Fanning. Staff: Aaron, Frazier, Green, Jones, McArthur, Padgett, Proctor, Saunders, Thompson, Woodworth.

The Department of Agricultural Economics offers courses designed to train young men for jobs in agriculture or closely allied vocations. The principal objectives of this type of training are:

(1) To prepare students for positions with the Federal and State departments of agriculture, and in the teaching, research, and agricultural extension divisions of land-grant colleges.

These positions require specialized preparation in agricultural economics, agricultural credit, farm finance, land economics, agricultural adjustments, marketing farm products, farm management, and cooperation in agriculture.

(2) To prepare students for entering private business in positions that require fundamental training in farm management, marketing, land use, farm credit, and other similar areas connected with agriculture. The problem of surpluses and the growing importance of distribution are placing added emphasis upon training in agricultural marketing. Adjustments in systems of farming are emphasizing the need for training in the field of farm credit. The great emphasis upon agri-business calls for more training in economics.

(3) To prepare students for graduate work in agricultural economics and marketing farm products.

There continues to be a strong demand for agricultural economists with post-graduate training. An expanding program of research in agricultural economics in the land-grant colleges and in the United States Department of Agriculture has opened more positions for such agricultural economists

than could be filled. Demand by private firms for men with post graduate training has increased greatly.

A student interested in the subject of agricultural economics is advised to study the suggested concentrations and to read the descriptions of courses that may be included in his program. He should then consult the Head of the Department of Agricultural Economics.

Each student must present a program of study to the professor designated by the Head of the Department of Agricultural Economics. This professor will be the student's adviser. A program of study in agricultural economics must be prepared and submitted during the last quarter of a student's sophomore year unless he is a transfer student, when it must be submitted during his first quarter's attendance.

CONCENTRATION IN AGRICULTURAL ECONOMICS

Science Option

Junior and Senior Years

This concentration is suggested for those who desire a comprehensive knowledge and understanding of economics applied to agriculture and those who later on may formulate a more specialized program of study.

Major: Agricultural Economics 301, 304, 351, and 364	20 Hours
Science Selections: Mathematics 101, and Philosophy 104 suggested among science selections	25 Hours
First Minor: Economics 326 or 334 and Business Administration 370	10 Hours
Second Minor: Must be in one department of the College of Agriculture	10 Hours
Special Requirements: Agricultural Economics 458 or 467	5 Hours
Electives: Selected with the Head of the Department	25 Hours

CONCENTRATION IN AGRICULTURAL ECONOMICS

Administration Option

This concentration is designed to train men for jobs in agricultural businesses, including firms marketing agricultural commodities and those providing supplies, equipment and services to producers.

Major: Agricultural Economics 301, 304, 408, 467	20 Hours
Agriculture Electives: (other than agricultural economics)	15 Hours
Business Administration: 110, 111, 151, 370	20 Hours
Science Selections: Selected with Departmental approval	10 Hours
Special Requirements: (Mathematics 356 or Economics 312; Agricultural Economics 469 or Economics 330)	10 Hours
Electives: Selected with Departmental approval	30 Hours

CONCENTRATION IN AGRICULTURAL MARKETING

Science Option

Junior and Senior Years

This concentration is designed to train men for jobs in agricultural marketing, including professional positions in teaching, extension, and research in this field.

MAJOR: Agricultural Economics 304, 400, 403, 408 ..... 20 Hours
SCIENCE SELECTIONS: Mathematics 101, and Philosophy 104 suggested among science selections ..... 25 Hours
FIRST MINOR: May be in any one department in the University ..... 10 Hours
(Recommended: Business Administration 110, 111, 370, any two)
SECOND MINOR: Must be in one department of College of Agriculture ..... 10 Hours
SPECIAL REQUIREMENTS: Agricultural Economics 467 ..... 5 Hours
ELECTIVES: Selected with Departmental approval ..... 35 Hours

CONCENTRATION IN FARM FINANCE

Science Option

JUNIOR AND SENIOR YEARS

This concentration is designed to train men for jobs with the federal land banks, production credit associations, the Farmers Home Administration, farm loan department of commercial banks, and the finance departments of cooperatives and other corporations.

MAJOR: Agricultural Economics 301, 304, 351, 469 ..... 20 Hours
SCIENCE SELECTIONS: One course in Sociology required ..... 25 Hours
FIRST MINOR: May be in any one department of the University..... 10 Hours
(Recommended: Economics 326 and 330 or 334)
SECOND MINOR: Must be in one department of the College of Agriculture ..... 10 Hours
SPECIAL REQUIREMENT: Agricultural Economics 467 ..... 5 Hours
ELECTIVES: Selected with Departmental approval ..... 35 Hours

CONCENTRATION IN FARM MANAGEMENT

Science Option

JUNIOR AND SENIOR YEARS

This concentration is recommended for students who expect to become county agents, teachers of agriculture, farm operators, farm managers, land appraisers or do other work involving plans for organization and management of farms.

MAJOR: Agricultural Economics 301, 304, 306, 402 ..... 20 Hours
SCIENCE SELECTIONS: Bacteriology 350 or Entomology 374, Plant Pathology 353 or 358 required ..... 25 Hours
FIRST MINOR: May be in any department of the University ..... 10 Hours
SECOND MINOR: Agronomy 320 or 321 and 353 or 356 or 458 ..... 10 Hours
SPECIAL REQUIREMENTS: Animal Husbandry 373, Agricultural Economics 351, and 458 ..... 15 Hours
ELECTIVES: Selected with Departmental approval ..... 25 Hours

AGRICULTURAL ECONOMICS

104. FARM ENTERPRISES. 3 hours. *Mr. Frazier* and *the Staff.*

A study of various farm enterprises with emphasis upon methods most commonly used in calculating receipts, cost, and income on a farm. To familiarize students with the cost and income - producing characteristics of various farm enterprises including economic planning.

110. RURAL ECONOMICS. 3 hours. *Mr. Fanning.*

Introduction to economics of farming, student orientation to entire field of agricultural economics, application of economics to farm problems.

301. FARM ORGANIZATION AND MANAGEMENT. Three lectures and two laboratory periods. Prerequisites: Agricultural Economic 104 and 110, Agronomy 101, Animal Husbandry 101, and Mathematics 100. *Mr. Frazier* or *Mr. Proctor.*

A scientific approach to the study of individual farm programs for the purpose of determining methods to be used for increasing farm income.

304. ECONOMICS OF AGRICULTURAL MARKETING. Prerequisites: Agricultural Economics 110, Poultry 160 and Horticulture 101. *Mr. Thompson.*

A general course in marketing farm products describing and analyzing marketing functions and market agencies; illustrated by visits to marketing concerns. General purpose to enable students to have a comprehensive understanding of the principles of agricultural marketing.

310. APPLIED ECONOMICS OF AGRICULTURE. Prerequisites: Agricultural Economics 110, or equivalent, and Mathematics 100. *Mr. Proctor.*

The principles of economics as applied to production, distribution, prices, credit, taxation, demand, supply and comparative advantage.

351. AGRICULTURAL CREDIT. Prerequisites: Agricultural Economics 110, Mathematics 100 and Political Science 101. *Mr. Proctor.*

Principles of finance applied to farm credit organizations. Practices and principles of financing individual farms.

364. LAND ECONOMICS. Prerequisites: Agricultural Economics 110, Agronomy 210 and Political Science 101. *Mr. Proctor.*

An appraisal of the agricultural use of land in the United States with special attention to Georgia land. Designed to meet current needs for training in application of economics to use of land by farmers under changing political and social conditions.

400. COOPERATION IN AGRICULTURE. Prerequisite: Agricultural Economics 304, 351, or equivalent. *Mr. Thompson.*

A study of cooperative marketing associations, their organization, and practices. A discussion of philosophy and economics of cooperation in agriculture.

401. FARMER MOVEMENTS. Prerequisite: Agricultural Economics 110, Political Science 101, and two senior division courses in Economics or Agricultural Economics. *Mr. Frazier.*

History of agricultural organizations; study of selected rural agencies and organizations; and a study of the relationship between organizations of rural people and their economic well being.

402. ADVANCED FARM ORGANIZATION AND MANAGEMENT. Five lectures (with a few special field trips per quarter). Prerequisites: Agricultural Economics 301 and 364 or equivalent, Agronomy 321 or equivalent and Animal Husbandry 373. *Mr. Proctor* or *Mr. Woodworth.*

Analysis of economic facts of individual farm plans and formation of economic models which postulate optimum allocation of land, labor and capital as guides for increased revenue.

403. MARKETING LIVESTOCK AND LIVESTOCK PRODUCTS. Prerequisites: Agricultural Economics 110, 304, 351 or equivalent, and one course in Livestock or Poultry Production. *Mr. Frazier.*

An economic study of livestock marketing with emphasis on channels of trade and methods of distribution, prices, standardization, transportation, regulation and supervision and the way in which marketing functions and agencies implement the marketing of livestock.

404. MARKETING FIELD CROPS AND HORTICULTURAL PRODUCTS. Prerequisites: Agricultural Economics 110, 304, 351, and Agronomy 320 or equivalent. *Mr. Aaron.*

An economic study of marketing of field and horticultural crops from the commodity approach.

408. ECONOMICS OF AGRICULTURAL LABOR UTILIZATION. Prerequisites: Agricultural Economics 110, 301 and 304 or equivalent and consent of the instructor. *Mr. Thompson.*

Work simplification and other aspects of operational efficiency for farms and agricultural marketing firms including the principles and techniques for improving layout materials handling, work methods, job instruction, working conditions, crew organization and management.

458. PRINCIPLES OF AGRICULTURAL ECONOMICS. Prerequisites: Agricultural Economics 110, Mathematics 100, Economics 312 or equivalent and senior standing. *Mr. Proctor* or *Mr. Padgett.*

Application of economic theories and principles to agricultural activities. Causes and effects of agricultural surpluses, factors of production, private and governmental control policies, and comparative agricultural enterprises.

467. AGRICULTURAL PRICES. Prerequisites: Agricultural Economics 110 and two senior division courses in Economics or Agricultural Economics. *Mr. Thompson.*

Au analysis of the principles of cause and effect of farm price fluctuations, the relative instability of farm prices in relation to industrial prices, the development of theoretical concepts as tools of analysis in dealing with farm price problems, including use of index numbers and graphic multiple correlation.

469. AGRICULTURAL FINANCE. Prerequisites: Agricultural Economics 110, two senior division courses in Economics or Agricultural Economics, and consent of the instructor. *Mr. Thompson.*

A study of financial problems of agricultural marketing businesses, including: budgetary analysis of financial requirements, sources of funds, discounting future costs and returns, credit management, management of reserves, risk reduction, and taxes.

GRADUATE COURSES

808. AGRICULTURAL ECONOMICS THEORIES AND PROGRAMS. Prerequisites: Three senior division courses including Agricultural Economics 458, Economics 334, 406 or equivalent. *Mr. Proctor.*

Review and analysis of economic theories and principles. Fundamentals of analyzing specific cause and effect problems in agriculture. (Given only upon sufficient demand and approval of professor.)

809. ADVANCED AGRICULTURAL PRICE ANALYSIS. Prerequisites: Agricultural Economics 467, Economics 312 or equivalent and consent of instructor. *Mr. Thompson.*

A continuation of Agricultural Economics 467; price theory reconciled with the practical problems of collecting and analyzing price data including sources and methods of collecting data, projecting trends, simple and multiple regression, matched pairs analysis, analysis of variance and sampling.

815. FARM ORGANIZATION ANALYSIS. Two lectures and three laboratory periods. Prerequisite: Agricultural Economics 301 and 402 plus advanced courses in soil, crops and livestock production and one or more courses in statistics. *Mr. Proctor or Mr. Woodworth.* (Given only upon sufficient demand and approval of professor.)

Assemble, appraise and analyze economic data of individual farms and make substitutions through budget and programming research.

821. PUBLIC PROBLEMS OF AGRICULTURE. Prerequisite: Agricultural Economics 301, and 458 or equivalent, and Economics 312 and 406 or equivalent. *Mr. Proctor* or *Mr. Woodworth.*

A group discussion and analysis of agricultural problems that involve institutional and governmental activities and program policies. (Given only upon sufficient demand and approval of professor.)

830-831. AGRICULTURAL ECONOMICS RESEARCH. 5 hours each. Prerequisite: Thirty or more credit hours in agricultural economics or related fields at the senior or graduate level. *Mr. Proctor* or *Mr. Thompson.*

Individual research in problems of agricultural economics conducted by students under the direction and guidance of the staff of the Department of Agricultural Economics.

DEPARTMENT OF AGRICULTURAL EDUCATION

(Peabody Hall, North Campus)

Head: Tolbert. Staff: Brown, Bryant, Duncan, O'Kelley.

The courses offered in this department prepare men to be teachers of vocational agriculture. Major students in this department have a broad

training in agriculture, and, upon the satisfactory completion of the training program outlined, are qualified for certification by the State Department of Education as teachers of agriculture. The program for training teachers of agriculture is carried on in cooperation with the College of Education through its Division of Vocational Education.

In addition to the opportunities for teaching vocational agriculture, graduates who have majored in this department are employed in many specialized positions in the fields of agriculture and education. Such positions capitalize on the technical and professional skills of these graduates for application in various selling, promotional, administrative and research activities as well as all kinds of educational leadership projects.

During one quarter of the senior year, each student does apprentice teaching in a selected off-campus rural school for which fifteen quarter hours of credit are given. The apprenticeship method of training teachers of agriculture has been used since 1928. This system of training enables the apprentice to deal first-hand with the many problems of a teacher of agriculture in a normal situation under the careful supervision of the regular teacher of agriculture and a member of the staff at the University

CONCENTRATION IN AGRICULTURAL EDUCATION

Freshman-Sophomore Courses. The following 26 hours of junior division agriculture courses are required for the Agricultural Education Concentration: Agricultural Economics 104, 110, Agricultural Engineering 220, Forestry 294, Poultry 160, Animal Husbandry 101 or Dairy 103, Agronomy 101 or Horticulture 101, Agronomy 210.

Junior-Senior Years

Major:
Education 335.1, 336.1, 346.1, 347.1, 348.1 ..... 25 Hours

Science Selections: Education 304 or 455 and four of the following courses:
Bacteriology 350, Mathematics 356 or Agronomy 356, Plant Pathology 353, Plant Pathology 358, Sociology 431 or 433, Entomology 374 ..... 25 Hours

First Minor: Selected from any department in the University subject to approval of adviser ..... 10 Hours

Second Minor: Agricultural Economics 301, 304 ..... 10 Hours

Special Requirements: Food Technology 409, Animal Husbandry 373, Education 349, Agricultural Engineering 203, 207 ..... 22 Hours

Electives ..... 13 Hours

COURSES IN THE COLLEGE OF EDUCATION WITH MAJOR IN AGRICULTURAL EDUCATION

304. Educational Psychology. *Selected members of the staff.*
Special emphasis in this course is placed upon developing competencies on the part of prospective elementary and high school teachers in understanding and applying the psychological principles involved in the growth and development of children and youth. Selected schools will be used as a laboratory for students in this course.

335.1. CURRICULUM PLANNING. Prerequisites: Education 303 and consent of instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

The purpose of this course is to develop the ability of students to engage in curricular activities in vocational agriculture in the public schools. Emphasis is placed on the procedures for locating, organizing, and summarizing data concerning social and agricultural problems to serve as a guide in formulating curricular activities with high school and adult groups based upon their needs and interests. Directed observation will be carried on in selected schools.

336.1. TEACHING PROCEDURES. Prerequisites: Education 303, 304, 335.1, and consent of instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

The purpose of this course is to evaluate teaching procedures used by teachers of vocational agriculture in the public schools. Attention is given to techniques used in teaching vocational agriculture to high school, young farmer, and adult groups. Selected schools will be used whenever practicable for observation of high school, young farmer, and adult groups.

346.1, 347.1, 348.1. APPRENTICE TEACHING. 15 hours. Prerequisites: Education 303, 304, 335.1, and 336.1. *Mr. O'Kelley* and *Mr. Tolbert.*

Prospective teachers of vocational agriculture are placed as apprentices in carefully selected schools of the state for an entire quarter. During this period they are carefully supervised in dealing with the problems of teaching vocational agriculture.

349. SEMINAR IN EDUCATION. 3 hours. Prerequisite: Apprentice Teaching. *Mr. Brown, Mr. O'Kelley,* and *Mr. Tolbert.*

A seminar dealing with problems emerging from experiences in apprentice teaching. Emphasis will be placed upon the planning of a total school program, and the place and responsibility of the teacher in the school. Special attention will be given to the work of the public schools in relation to the needs and interests of the community, the nation, and the world.

GRADUATE COURSES

671. ADULT EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

The primary purposes are: (1) to develop a philosophy of adult education, (2) to develop techniques for discovering adult problems, and (3) to discover and apply appropriate methods of organizing and teaching adult groups. Designed for experienced teachers, rural school supervisors and administrators, and other adult leaders.

763. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

Designed to meet the needs of experienced teachers of agriculture who want additional training in specific problems of teaching. Planned so that students may work at their special interests, individually or in groups.

771. TEACHING PROCEDURES IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

This course is designed to meet the needs of those teachers of vocational agriculture who desire guidance in improving teaching procedures. Consideration is given to the development of curricula based on the needs and interests of students, the organization of the curricula into teaching units, the planning of units for instruction, teaching, and evaluation.

772. EVALUATION IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

This course has the following purposes: (1) to guide teachers, supervisors, and administrators to develop the ability to evaluate departments and programs of vocational education in schools and communities, (2) to guide teachers in the development of methods and techniques for evaluating their own instruction.

773. SUPERVISION OF VOCATIONAL TEACHING. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

Major emphasis is placed upon the following: (1) developing a point of view or philosophy of teacher education, (2) analyzing the present teacher training program in vocational education in Georgia to discover problem situations that may be used as a basis for teacher education programs, (3) determining the relative emphasis that each teacher-training agency should place upon the solution of the several problems in the teacher-education program, and (4) projecting plans for an apprentice-training program.

921. LABORATORY IN APPLIED EDUCATION. Prerequisites: four courses in education and consent of major professor. *Staff.*

Designed to provide opportunities for advanced students to undertake functional studies of topics or problems in education significantly related to their professional tasks. For most students, it will involve supervised field work in the attempt to solve one or more practical school problems related to their normal duties.

DEPARTMENT OF AGRICULTURAL EXTENSION

(Livestock - Poultry Building, South Campus)

Head: Lancaster. Staff: Proctor and Agricultural Extension Staff.

The concentration offered by this Department is designed for men and women who wish to prepare for Agricultural Extension Service careers. It is open to men pursuing the B.S.A. curriculum in the College of Agriculture, and to women in the School of Home Economics.

Students who choose this concentration, both men and women, must complete all freshman and sophomore courses in their respective degree-course programs. Upon completion of these requirements, they are to prepare, in keeping with the requirements of their respective concentrations, a program for their junior and senior years, which must be approved by their major professor.

The concentration which follows this introductory statement sets forth the requirements for students in the College of Agriculture who wish to meet the qualifications for becoming a county agent. Only those students who are farm-reared and have had adequate, practical farm experience will be permitted to pursue this training program.

Two or more of the courses included in the major, one of which shall be Agricultural Extension 313, must, normally, be taken during the junior year. This will make it possible to provide for one summer's field experience, under supervision, to be completed prior to registering for Agricultural Extension 314, which is a course that may be taken only during the senior year. Field experience for a period of two or more months, under an approved county agent or some other Extension Service worker is desirable in this concentration. No college credit will be given for field experience. However, those taking this concentration, and who are selected for field training, will be paid a nominal salary during the period of training.

CONCENTRATION IN AGRICULTURAL EXTENSION

Science Option

MAJOR: Agricultural Extension 313, 314, Sociology 431, Education 455	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Economics 312, Plant Pathology 353, Entomology 374	25 Hours
FIRST MINOR: Agronomy 320 or 321, Agronomy 356	10 Hours
SECOND MINOR: May be in any one department in the University	10 Hours
SPECIAL REQUIREMENT: Journalism 368, Agricultural Extension 401	10 Hours
ELECTIVES: To be selected with the objective of providing a well-rounded program for the individual. Must be approved by the major professor. May be chosen from the offerings of any Department in the University	20 Hours

CONCENTRATION IN AGRICULTURAL EXTENSION

Administration Option

MAJOR: Agricultural Extension 313, 314, Education 355, Sociology 431	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and additional 10 hours approved by faculty adviser	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Entomology 374	10 Hours
SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312, Agricultural Economics 469 or Economics 330	10 Hours
ELECTIVES: To be selected with approval of faculty adviser	30 Hours

AGRICULTURAL EXTENSION

313. AGRICULTURAL EXTENSION ORGANIZATION AND PROCEDURES. Prerequisites: Two or more senior division courses. *Mr. Lancaster* and *the Staff.*

Philosophy, procedures, and practices of Extension Service work in agriculture and home economics; organization, administration, and financing; relationships with cooperating and related organizations and agencies; qualifications, duties, and responsibilities of Extension Service workers.

314. AGRICULTURAL EXTENSION SERVICE PROGRAMS. Prerequisite: Agricultural Extension 313. *Mr. Lancaster* and *the Staff.*

Scope and nature of Extension Service programs at national, state, and county levels; emphasis upon techniques, policies, and procedures for developing Extension Service programs as basis for work of county and home demonstration agents; activities involved in carrying out programs; evaluation of efforts and results obtained.

401. FARMER MOVEMENTS. Prerequisites: Agricultural Economics 104 and 110. *Mr. Proctor.*

History of agricultural organizations; study of selected rural agencies and organizations; and a study of the relationship between organizations of rural people and their economic well being.

DEPARTMENT OF AGRONOMY

(Conner Hall, South Campus)

Head: Rogers. Staff: Adams, Beaty, Brown, Douglas, Giddens, Morris, McCreery, McIntyre, Perkins, Smith, Williams.

The courses offered in the Agronomy Department are designed for students interested in general farm crop production, soil management practices, the various fields of specialization in agronomic work, and electives for majors in other fields of specialization.

Students majoring in this department are prepared for general farming, for farm managers, and for employment in various fields of agriculture, such as the U. S. Department of Agriculture, experiment station workers, college teachers, extension work in crops and soils, seed industry, cotton specialization, soil conservation, soil survey, and the fertilizer industry. Provision is made for those who continue their training as graduate students in either crops or soils.

Students majoring in the Department of Agronomy should contact the Head of the Department and be assigned to an adviser. The student will plan his program of study in consultation with his adviser. All courses and electives must be approved by the adviser. It is usually possible for

students to obtain work, on an hourly basis, with the research staff in the department.

Four concentrations are offered with electives in related fields.

I. CONCENTRATION IN GENERAL AGRONOMY

Science Option

This concentration is designed for students who plan to farm or to enter the fields of farm management, farm operation, technical planning, or agronomic work in soil-conserving programs. This concentration is not designed for those who plan to do graduate work.

MAJOR: Agronomy 320, 321, 356, 458	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 375, 380, Plant Pathology 353, 358	25 Hours
FIRST MINOR: Any department in the University (Must be approved by the student's adviser)	10 Hours
SECOND MINOR: Agronomy 332, 353	10 Hours
SPECIAL REQUIREMENTS: Agricultural Economics 301, 364, Botany 305, 323, Plant Pathology 356, Geology 125, Sociology 451	20 Hours
GENERAL ELECTIVES	10 Hours

II. CONCENTRATION IN GENERAL AGRONOMY

Administration Option

This course of study is planned to give a student training in agriculture and in the field of business administration. A student graduating with a major in this concentration is prepared to enter various types of agricultural businesses. These include fertilizer and seed administration and sales as well as other forms of private businesses serving the farmer or processing farm products.

MAJOR: Agronomy 324, 356, and 10 hours from Agronomy 320, 321, 332, 458	20 Hours
SCIENCE SELECTIONS: 10 hours from Plant Pathology 353, 358, Entomology 374	10 Hours
FIRST MINOR: Business Administration 110, 370, plus 10 additional hours	20 Hours
SECOND MINOR: Agricultural Economics 304, 408, 467,	15 Hours
SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312 and Economics 330 or Agriculture Economics 469	10 Hours
ELECTIVES	30 Hours

III. CONCENTRATION IN AGRONOMIC SCIENCE

Science Option

This concentration is designed primarily for students who plan to enter graduate school to continue their training in either plant science or soil science.

MAJOR: Twenty selected hours in Agronomy ..... 20 Hours

SCIENCE SELECTIONS: Twenty-five hours to be selected from: Plant Pathology 353, Mathematics 101, 210, 254, 255, Botany 305, 323, 375, Geology 125, 321, 323, Chemistry 223, 380, Physics 228, 229 ..... 25 Hours

FIRST MINOR: Plant Pathology 358, Entomology 374 ..... 10 Hours

SECOND MINOR: Bacteriology 350, Botany 380 ..... 10 Hours

SPECIAL REQUIREMENTS AND ELECTIVES ..... 40 Hours

IV. CONCENTRATION IN SOIL CONSERVATION

Science Option

This concentration is designed especially for students interested in soil conservation, soil improvement, farm program planning, and soil utilization, and is not designed for those who plan to do graduate work. This concentration is given in cooperation with the Department of Agricultural Engineering.

MAJOR: Agronomy 353, 356, 458, 460 ..... 20 Hours

SCIENCE SELECTIONS: Botany 305, 375, 380, Mathematics 101, Geology 125 ..... 25 Hours

FIRST MINOR: Agronomy 320, 321 ..... 10 Hours

SECOND MINOR: Agricultural Engineering 111, and 5 additional hours in Agricultural Engineering ..... 10 Hours

SPECIAL REQUIREMENT: Agricultural Economics 364, Agronomy 425, and 324 or 332, Plant Pathology 358 ..... 20 Hours

GENERAL ELECTIVES ..... 20 Hours

AGRONOMY

101. FIELD CROP PRODUCTION. 3 hours. *Mr. Douglas* and *Mr. Rogers.*

A general survey of the principles involved in the economical production of the more commonly grown field and forage crops. Laboratory exercises will include plant and seed identification in the field and laboratory.

210. PRINCIPLES OF SOILS. Prerequisites: Chemistry 121-122. *Mr. Morris, Mr. McCreery, Mr. Giddens,* and *Mr. Perkins.*

Soil formation; physical, chemical, and biological properties of soils; commercial fertilizers, lime and organic matter; and soil management practices, with particular reference to cultivated soils. (Not open to Forestry students.)

300. COMMERCIAL COTTON CLASSING. (Good eyesight and color perception necessary). *The Staff.*

Cotton grades and staples according to Universal Standards for American Upland Cotton. Practices consist of grading and stapling several thousand samples of cotton.

320. SOUTHERN FIELD CROPS. Prerequisites: Agronomy 101 and 210. *Mr. Douglas.*

Production, harvesting and utilization of the major cash crops of Georgia are discussed. Laboratory exercises deal with botanical and morphological characteristics of the crops and the fundamentals of grading and classing. Field trips to the College Experiment Station are made for the purpose of observing current research.

321. FORAGE AND PASTURE CROPS. Prerequisites: Agronomy 101 and 210. *Mr. Brown* and *Mr. Beaty.*

Study of the adaptation, requirements, and culture of the important grasses and legumes and their use as pasture, hay, silage, and soilage.

324. WEEDS AND SEEDS. Prerequisites: Agronomy 101 and 210. *Mr. Brown.*

Beneficial and harmful effects of weeds. Principles of weed control, including the use of chemicals and cultural practices. Seed certification, analysis, and germination. Identification of weeds in seed and plant form.

332. CEREAL PRODUCTION. Prerequisites: Agronomy 101 and 210. *Mr. Brown.*

Distribution, classification, production and uses of corn, small grains, and grain sorghum. Laboratory exercises include identification of varieties and grain grading by U. S. Standards.

353. SOIL FORMATION AND CLASSIFICATION. Prerequisite: Agronomy 210. *Mr. Perkins.*

Soil formation, classification, and soil survey, including preparation of soil survey maps and reports. Several full-day fields trips will be required at the student's expense. (Total cost about $25.00).

356. FERTILIZERS. Prerequisite: Agronomy 210. *Mr. Morris.*

Sources, manufacture, and uses of commercial fertilizers, and the principles involved in the application of fertilizers to crops. Plant nutrient deficiency symptoms and means of correcting these deficiencies.

423. (STATISTICS) PRINCIPLES OF EXPERIMENTAL METHODS. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Morris.*

Principles and practices in plant and animal research with special reference to the design and mechanical procedure with experimental plots. The applications of statistical methods to laboratory and field results are emphasized.

425. PASTURE DEVELOPMENT AND MANAGEMENT. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Beaty.*

Fundamental principles of growth and production of pasture plants and mixtures; types of pastures and pasture vegetation; principles of establishment and management for economical production and soil conservation.

427 a-b-c. AGRONOMY SEMINAR. 1 hour each. *The Staff.*

Topics relating to crops and soils to be discussed, including literature review and results pertaining to local experimental work. Required of senior and graduate students. Students and faculty to participate.

458. LAND USE PROBLEMS. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Giddens.*

Soil management practices pertaining to efficient land use, and the application of these practices to farm planning and soil conservation.

459. SOIL FERTILITY. Prerequisites: Agronomy 356 and 458, or equivalent. *Mr. Morris.*

Soil conditions affecting availability of plant nutrients, methods of determining soil fertility and deficiency of plant nutrients in soils, and interpretation of chemical and biological measurements as related to fertility maintenance and good soil management.

460. SOIL PHYSICS. Prerequisites: Agronomy 353 and Chemistry 380, or equivalent. *Mr. McCreery.*

Physical properties, moisture relations, and methods of physical analysis of soils.

461. (BACTERIOLOGY) SOIL MICROBIOLOGY. Prerequisites: Agronomy 458 and Bacteriology 350 or equivalent. *Mr. Giddens.*

Study of characteristics of microorganisms inhabiting the soil. Activities of soil microorganisms such as nitrogen fixation, carbon cycle, and other factors affecting soil fertility are especially stressed.

GRADUATE COURSES

803. FACTORS AFFECTING GROWTH AND REPRODUCTION IN CROPS. Prerequisites: Agronomy 321, 356, Botany 380 or equivalents. *Mr. Rogers.* (Not offered 1959-60).

Analysis of factors affecting growth, differentiation, and reproduction of plants; the influence on competition, succession and plant communities; practical problems are discussed in light of current research.

810. ADVANCED AGRONOMY SEMINAR. One hour per quarter for one to six quarters. Prerequisite: Graduate standing. *The Staff.*

Topics relating to research in crops and soils, including literature review and results pertaining to local experimental work. Required of all graduate students.

812. (PLANT BREEDING) SPECIALIZED PLANT BREEDING. Prerequisites: Plant Pathology 353, 402, and one senior division course in crop production. *Mr. Brown, Mr. Douglas, Mr. Fleming,* and *Mr. Rogers.*

Conducted cooperatively by the Department of Agronomy and Department of Plant Pathology and Plant Breeding. A combination of lectures and laboratory periods in the greenhouse and experimental field with emphasis on fundamental practices and techniques used in the development of farm-crop varieties and hybrids. Opportunity for student to receive personal supervision.

821-822. SPECIAL PROBLEMS IN SOIL SCIENCE. Five hours each. Prerequisite: B.S. degree with major in soils. *The Staff.*

The planning, completion and reporting of short-time problems in one of the soil sciences, other than thesis, conducted in the library, laboratory, greenhouse, or field.

823-824. SPECIAL PROBLEMS IN PLANT SCIENCE. Five hours each. Prerequisite: B.S. degree with major in crops. *The Staff.*

The planning, completion, and reporting of short-time problems in one of the crop sciences, other than thesis, conducted in the library, laboratory, greenhouse or field.

825-826. SPECIAL PROBLEMS IN AGRONOMY. Five hours each course. Prerequisites: At least one course in Agronomy with catalogue number 800 or above. *The Staff.*

The planning and completion of short-time agronomic problems, other than thesis investigations, conducted in the library, field, greenhouse, or laboratory.

827. (STATISTICS) EXPERIMENTAL DESIGN. Prerequisite: Agronomy 423 or equivalent. *Mr. Morris.*

A continuation of Agronomy 423, including the design and analysis of complex experiments with a large number of treatments. This course is designed to meet the needs of students in plant sciences.

852. ADVANCED SOIL FERTILITY. Prerequisites: Agronomy 459 or equivalent. *Mr. Morris.* (not offered 1960-61).

Phyiscal, chemical, and bacteriological aspects of soil fertility as related to plant growth.

853. METHODOLOGY IN SOIL CHEMISTRY. Prerequisites: Agronomy 459 and Chemistry 380, or equivalent. *Mr. McCreery.*

Special treatment of methods used in soil and plant analyses. Emphasis is placed on chemical laboratory methods and equipment used in soil investigations; however, physical and biological methods are also presented. Interpretation of experimental data is stressed.

854. SOIL MORPHOLOGY AND GENESIS. Prerequisites: Agronomy 353 and Chemistry 380, or equivalent. *Mr. Perkins.*

Morphological features of soils, factors influencing these features, and concepts and theories of origin and development of soils with emphasis on clay mineralogy.

860. SOIL PHYSICAL FACTORS AND PLANT GROWTH. Prerequisites: Botany 380, and Agronomy 460. *Mr. Williams.*

Consideration will be given to certain fundamental relations resulting when plants are subjected to a varying physical environment. Special emphasis will be placed upon the effects of soil moisture as related to plant growth, nutrient uptake and other physiological processes.

930. THESIS RESEARCH IN AGRONOMY. 5 to 50 hours.

Credits in this course must be in addition to the 40 hours required for the M.S. degree. Prerequisite requirements depend upon research problem and consent of major professor. Available by arrangement any quarter to any graduate student majoring in agronomy who is a candidate for the Master of Science degree.

DEPARTMENT OF ANIMAL HUSBANDRY

(Livestock - Poultry Building, South Campus)

Head: Long. Staff: Carmon, Cullison, Danion, Lassiter, Sewell, Warren.

The courses offered by the Department of Animal Husbandry are designed to give students basic training in the production of beef cattle, sheep, and swine. While most of the courses offered deal with the more practical phases of selection, breeding, feeding, and/or management, several courses of a technical nature are offered for those students who desire to enter some specialized type of work or who plan to follow a program of graduate study.

The courses of the Department are especially planned for students who expect to become livestock farmers, farm managers, herdsmen, animal husbandry specialists, county agents, vocational agricultural teachers, college teachers, or experiment station workers. They are also suitable for students who intend to enter positions with breed associations, feed manufacturers,

packing houses, livestock commission firms, livestock equipment and supply companies, or livestock journals.

CONCENTRATION IN ANIMAL HUSBANDRY

Science Option

MAJOR: Animal Husbandry 360, 361, 372, 373 ..... 20 Hours

SCIENCE SELECTIONS: Animal Husbandry 358, Bacteriology 350, Plant Pathology 358, Zoology 390, and one other ..... 25 Hours

FIRST MINOR: Agronomy 321 and 356 ..... 10 Hours

SECOND MINOR: May be selected by student in any department of the University, subject to the approval of the Head of the Department ..... 10 Hours

SPECIAL REQUIREMENTS: Animal Husbandry 350, 366, Food Technology 365 or 368, Journalism 350 and Veterinary Hygiene 200 21 Hours

GENERAL ELECTIVES: Subject to the approval of the Head of the Department ..... 19 Hours

CONCENTRATION IN ANIMAL HUSBANDRY

Administration Option

MAJOR: Animal Husbandry 360, 361, 372, 373 ..... 20 Hours

AGRICULTURAL ECONOMICS: 304, 408, 467 ..... 15 Hours

BUSINESS ADMINISTRATION: 110, 370; an additional 10 hours approved by student's faculty adviser ..... 20 Hours

SCIENCE SELECTIONS: Animal Husbandry 358; Plant Pathology 358 ..... 10 Hours

SPECIAL REQUIREMENTS: Bacteriology 350; Food Technology 365 or 368; Animal Husbandry 350; Economics 312, 330 ..... 23 Hours

GENERAL ELECTIVES: Subject to the approval of the student's faculty adviser ..... 17 Hours

ANIMAL HUSBANDRY

101. INTRODUCTORY ANIMAL HUSBANDRY. 3 hours. *Mr. Cullison.*

A study of basic facts, principles, and terminology pertaining to beef cattle, sheep, swine, horses and mules.

350. TYPES, BREEDS, CLASSES, AND GRADES OF LIVESTOCK. 3 hours. Prerequisite: Animal Husbandry 101. *Mr. Danion.*

A study of the characteristics of the different types, breeds, classes, and grades of livestock.

356.1, 356.3, 356.4. 1 hour each. FITTING AND SHOWING BEEF CATTLE, SHEEP, AND SWINE, (respectively). Prerequisite: Animal Husbandry 101. *Staff.*

A laboratory course designed to train students in the proper fitting and showing of the various breeds and classes of beef cattle, sheep, and swine for show or sale.

358. FUNDAMENTALS OF ANIMAL NUTRITION. Prerequisites: Zoology 226, Chemistry 260. *Mr. Fuller, Mr. Lassiter,* and *Mr. Miller.*

A study of the fundamental principles of animal nutrition.

360. BEEF CATTLE PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Long.*

A study of the breeding, feeding, and management of beef cattle.

361. SWINE PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Sewell.*

A study of the breeding, feeding, and management of swine.

364. SHEEP PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Warren.*

A study of the breeding, feeding, and management of sheep.

366. LIVESTOCK JUDGING AND SELECTION. 3 hours. Prerequisite: Animal Husbandry 350 or permission of the instructor. *Mr. Danion.*

A course which deals with the selection of livestock for the breeding herd and for slaughter. From the students in this course will be chosen the team to represent the University in the Annual Spring Intercollegiate Livestock Judging Contests.

371. LIVESTOCK PRODUCTION. *Mr. Danion.*

A study of the fundamental principles and practices involved in the profitable production of various classes of farm animals. **(Not for Animal Husbandry majors. Students taking this course will not receive credit in Animal Husbandry 360, 361, and 364).**

372. ANIMAL BREEDING. Prerequisites: Animal Husbandry 101 and Plant Pathology 358. *Mr. Warren.*

A study of the basic principles of genetics and reproduction as related to the breeding and improvement of farm animals.

373. FEEDS AND FEEDING. Prerequisites: Animal Husbandry 101 and Chemistry 260. *Mr. Lassiter.*

A study of the composition and properties of the important feed stuffs and their use in the feeding of farm livestock.

376. ADVANCED LIVESTOCK JUDGING AND SELECTION. 3 hours. Prerequisite: Animal Husbandry 366 or permission of instructor. *Mr. Danion.*

A continuation of Animal Husbandry 366. From the students in this course will be chosen the team to represent the University in the Annual Fall Intercollegiate Livestock Judging Contests.

402. ADVANCED ANIMAL NUTRITION. Prerequisites: Animal Husbandry 358, 360, 361, or 364, Zoology 390 or equivalent. *Mr. Sewell.*

A study of the chemical composition and the physical and chemical properties of feeds and feed nutrients; the digestion, absorption and metabolism of the nutrients; factors affecting nutrient utilization; the functions of the different nutrients; the nutrient requirements of farm animals; the effects of nutrient deficiencies and how to correct and prevent them.

404. THE GENETIC IMPROVEMENT OF FARM ANIMALS. Prerequisites: Animal Husbandry 372 or equivalent and one other senior division course in Animal Husbandry or closely related department. *Mr. Warren.*

The development of practical and genetically sound programs involving the study and application of genetic principles underlying selection, systems of mating and performance testing.

405. PHYSIOLOGY OF REPRODUCTION IN FARM ANIMALS. Prerequisites: Animal Husbandry 372 or equivalent, Zoology 390 and at least one other senior division course in Animal Husbandry or closely related field. *Mr. Warren.*

A study of the physiology of reproduction of farm animals, including the advanced aspects of the technological control of the reproductive processes.

GRADUATE COURSES

801-802. SPECIAL PROBLEMS IN ANIMAL HUSBANDRY. 5 hours each. Prerequisites: Animal Husbandry 402 or 404 or 405 and permission of instructor. *Mr. Carmon, Mr. Cullison, Mr. Lassiter, Mr. Long, Mr. Sewell,* and *Mr. Warren.*

Library and laboratory problems dealing with different phases of livestock production.

805. EXPERIMENTAL METHODS IN ANIMAL NUTRITION. Prerequisite: Animal Husbandry 402 or equivalent. *Mr. Lassiter.*

A study of the experimental methods used in animal nutrition research; the nature and significance of chemical determinations, feeding trials, digestion trials, and metabolism studies.

806. MINERALS AND VITAMINS IN THE NUTRITION OF FARM ANIMALS. Prerequisites: Animal Husbandry 402 and Zoology 390. *Mr. Sewell.*

A detailed study of the roles of individual minerals and vitamins in the nutrition of cattle, sheep and swine with particular emphasis on reports in current literature.

810 a-b-c. SEMINAR IN ANIMAL HUSBANDRY. 1 hour each. Prerequisites: Animal Husbandry 360, 361 and 372 or equivalent. *Mr. Sewell.*

Weekly meetings devoted to discussions of current problems and research in the field of Animal Husbandry.

826. (STATISTICS) STATISTICAL METHODS IN ANIMAL SCIENCE. Prerequisites: Agronomy 423-623 or equivalent. *Mr. Carmon.*

A study of special experimental designs and statistical procedures particularly applicable to animal research.

828. POPULATION GENETICS. Prerequisites: Animal Husbandry 827 or equivalent. *Mr. Carmon.*

Statistical analysis of the genetic structure of animal populations and a study of the genetic forces responsible for the changes in these populations.

930. THESIS. 5 to 20 hours. Prerequisites: Two or more graduate courses in Animal Husbandry. Open only to Animal Husbandry majors. *The Staff.*

The carrying out of laboratory and library research and the development of a thesis bearing on the subject under investigatoon.

DEPARTMENT OF BOTANY

(Biological Science Building, South Campus)

Head: Westfall. Staff: Beck, Browne, Carlton, Duncan, James, Michel, Plummer.

A major in Botany is often highly desirable for students in the College of Agriculture who are interested in any of the plant sciences. A thorough knowledge of plant structures, processes, environmental requirements, and the principles of identification and classification to be derived from such a course of study is basic to Agronomy, Horticulture, Plant Pathology, and Plant Breeding, and is generally essential as a foundation for effective graduate work in these fields.

Students who specialize in Botany have the academic requirements for several positions with the United States Department of Agriculture and other Federal agencies. When taken adjunctively with another major in the plant sciences, a major in Botany should prove most valuable as preparation for numerous State and Federal agencies.

MAJOR: Botany 305, 323, 375, 380	20 Hours
SCIENCE SELECTIONS FROM: Bacteriology 350, Entomology 374, Chemistry 260, Plant Pathology 353, Plant Pathology 358 or Biology 370	25 Hours
FIRST MINOR: To be approved by Head of Department	10 Hours
SECOND MINOR: Must be in the college of Agriculture	10 Hours
ELECTIVES	40 Hours

BOTANY*

110. PLANT BIOLOGY AND MAN. No credit will be allowed for Botany 110 if credit is shown for Botany 121. *The Staff.*

Basic studies of life, employing a variety of plant materials and emphasizing the relationship of structures and processes to the welfare of man.

*Students may be held responsible for breakage in laboratory courses.

111. PLANT BIOLOGY AND MAN (Continued). No credit will be allowed for Botany 111 if credit is shown for Botany 122. *The Staff.*

A study of the reproduction, heredity, evolution, and environmental relationships of representative groups of plants, emphasizing economic and cultural applications.

121. ELEMENTARY BOTANY. Not open to students who have credit for Botany 110. Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton* and *the Staff.*

A study of (a) the structure of leaves, stems, and roots; (b) growth and nutritive processes of plants; and (c) the relations of plants to their environment.

122. ELEMENTARY BOTANY (Continued). Not open to students who have credit for Botany 111. Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton* and *the Staff.*

A study of reproduction, variation, heredity, and evolution of seed plants, with studies of representatives of the other major plant groups and their importance.

305. IDENTIFICATION OF FLOWERING PLANTS. Five double laboratory periods, outdoors on field trips when possible. Attendance on scheduled all-day or longer trips to mountains, coastal islands, etc. may be substituted for an appropriate number of regular sessions. Prerequisites: None, except that the course is not open to freshmen without the consent of the instructor. *Mr. Duncan* and *Mr. James.*

Studies in the identification of plants with emphasis on wild flowers.

306. IDENTIFICATION OF TREES AND SHRUBS. Three two-hour periods each week plus three full-day trips as scheduled. Given Winter quarter. Prerequisites: none except freshmen should have permission of instructor. *Mr. James.*

Studies in the identification of trees and shrubs, with emphasis on identification under winter conditions.

323. ELEMENTARY PLANT ANATOMY. Five two-hour laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122. *Mr. Carlton.*

The origin and development of the organs and tissue systems of vascular plants, and a comparative study of the structure of roots, stems, leaves, flowers, and fruits.

358. METHODS IN PLANT HISTOLOGY. Five double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122. *Mr. Carlton.*

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

375. PLANT ECOLOGY. Three one-hour lecture discussion periods, two double periods of field trips or laboratory per week, and/or occasional week-end field trips. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Plummer.*

Plant geography, community analysis, symbiosis, species populations, limiting factors, cycles, rhythms, and applied implications. Fall quarter: synecology; Spring quarter: autecology; Summer quarter: field trips.

380. PLANT PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Beck.*

A survey of physiological processes occurring in economic plants and the conditions which affect these processes.

471. TAXONOMY OF SEED PLANTS. Five double laboratory periods. Prerequisites: Botany 305 or equivalent and any other senior division course in botany or approved course in plant pathology, forestry, or geography.

A study of identification and classification of seed plants with emphasis on the flora of the southeastern states.

473. IDENTIFICATION OF GRASSES. Five double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and two senior division courses in botany or approved courses in other plant sciences. *Mr. Duncan.*

Studies in the identification and classification of grasses with emphasis on structure and ecology. Numerous economically important species are included.

475. BRYOPHYTES. Three one-hour lecture and two double laboratory periods. Fall Quarter of odd numbered years. Prerequisites: Any two senior division courses in botany or plant pathology.

Studies in the morphology and taxonomy of Bryophytes. The laboratory will be devoted partly to study of Bryophytes in the field.

476. VEGETATION OF NORTH AMERICA. Six hours library-laboratory, three hours seminar per week and a week-end field trip. Spring Quarter. Prerequisites: Fifteen hours credit in Botany, Geology and Geography, or Agriculture. *Mr. Plummer.*

Theories of plant geography, climax formations, and the causes of contemporary vegetation. Includes floristics, indicator plants and problems in land utilization. Emphasizes eastern North America.

478. PTERIDOPHYTES. Four one-hour lecture, discussion, or demonstration periods and one two-hour laboratory period. Fall Quarter of even numbered years. Prerequisites: Any two senior division courses in Botany or Plant Pathology.

Studies in the identification, classification, and morphology of Pteridophytes.

482. NUTRITION OF GREEN PLANTS. Two lectures and three double laboratory periods. Prerequisites: Botany 323 and 380. *The Staff.*

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

483. ADVANCED PLANT PHYSIOLOGY. Five double laboratory periods. Prerequisites: Botany 380 and any other senior division course in botany, chemistry, or plant pathology. *The Staff.*

An evaluation of accepted concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

520. FIELD AND LABORATORY BOTANY. Two lectures and three double laboratory periods and special field trips. Prerequisites: Botany 121-122 or equivalent and two senior division courses in botany or education.

A course in field botany designed especially for teachers. Particular emphasis is placed upon the identification of local flowering plants and ferns, and upon the selection and use of materials for correlating the study of plants with other subjects.

522. ADVANCED FIELD AND LABORATORY BOTANY. Two lectures and three double laboratory periods and special field trips. Prerequisite: Botany 520.

A second course primarily for teachers, emphasizing plant identification, environmental relationships, and plant distribution.

GRADUATE COURSES

802 and 804. PROBLEMS IN BOTANY. 5 hours for each course. Under this heading work may be pursued under the direction of staff members in plant anatomy, plant ecology, plant morphology, plant physiology, plant taxonomy or mycology. Prerequisites: Two senior division courses in botany or approved courses in agriculture, geography, or forestry.

831. MORPHOLOGY OF SEED PLANTS. Five double laboratory periods. Prerequisites: Botany 323 and one other senior division course in botany or plant pathology.

Critical studies of representative seed plants, considering their development and relationship.

840. CYTOLOGY. Two lecture and three double laboratory periods. Prerequisites: Zoology 401, or equivalent, and one other approved senior division course. Credited toward a major in botany or zoology. *Mr. Westfall.*

The study of cells, their cytoplasm and nuclei, metabolism, growth, differentiation and reproduction.

842. CYTOGENETICS. Two lecture and three double laboratory periods. Prerequisite: Botany 840. Credited toward a major in botany or zoology. *Mr. Westfall.*

A course dealing with the correlation of genetic data and cytological structures and processes, emphasizing the mechanisms of normal chromosome distribution, chromosomal aberrations, and their relationship to the development of species.

860. AQUATIC PLANTS. Three one-hour lectures and two double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and any two courses numbered above 300 in botany, entomology, or zoology which provide taxonomic training.

A study of the taxonomy, distribution, and ecology of aquatic plants, with emphasis upon fresh-water forms and habitats. Laboratory will be devoted mostly to study of aquatic plants in the field.

872. ADVANCED TAXONOMY OF SEED PLANTS. Two lectures and three double laboratory periods. Prerequisites: Botany 471 or equivalent.

A study of the taxonomy of special groups, concepts and systems of classification and problems of nomenclature.

DAIRY DEPARTMENT

(Dairy Building and Livestock - Poultry Building, South Campus)

Head: Henderson. Staff: Bennett, Clifton, Fosgate, Miller, Roberts, Shuering.

The dairy industry in Georgia has been steadily increasing in importance for a number of years. With this growth there has also been an increase in the demand for trained personnel in the various phases of the dairy industry.

With the rapid increase in the industrial development within the state, commercial dairying has become of much greater importance. Sales of fluid milk are more than double that of ten years ago. For the most part, however, the milk for butter, cheese, evaporated milk, powder, and similar products is imported from other states. During recent years much effort has been expended toward developing a greater supply of manufacturing grade milk. Markets are already being developed for this type of milk. This development of the dairy industry in Georgia has greatly increased the demand for young men trained in this field.

The Dairy Building provides adequate facilities for teaching all phases of manufacturing, processing, and distributing dairy products. One wing of the building houses a dairy manufacturing laboratory which is used for training students in the operation of milk processing equipment, the processing of market milk, and the manufacturing of ice cream, butter, cheese, and condensed milk.

The dairy farm is provided with modern barns of unusual beauty. A practical program of feed production and herd management is conducted for the benefit of students in the University, research, and demonstration to visitors. A herd of purebred dairy cattle representing two of the major breeds is maintained on the college farm.

SPECIAL STUDENTS. Frequently, requests are received relative to short periods of training on a non-degree basis. The laboratories of the department are available at all times for informal training under the supervision of the person in charge of the laboratory.

It should also be pointed out that any resident of the state may, under certain circumstances, register in the University as a special student and take any courses regularly taught. The Dairy Department can usually arrange satisfactory programs of study to fit the needs of the individual. These will range from three months (one quarter) to two years (six quarters).

SCHOLARSHIPS. Several scholarships are available to students desiring to major in one of the programs of the dairy department. For information as to availability of scholarships, write the Head of the Dairy Department, University of Georgia, Athens.

CONCENTRATIONS. For students regularly enrolled in the University, the Dairy Department offers a variety of concentrations. Within the College of Agriculture a concentration is offered in dairy production under either the Administration or the Science option. Similarly a concentration is offered in dairy manufacturing under either of these options. In addition

a concentration is offered in sanitary science. A detailed explanation of this program is included under the description of that concentration. A special concentration in dairy plant management is offered through the School of Business Administration. The programs outlined here may be altered to fit the needs of individual students.

CONCENTRATION IN DAIRY PRODUCTION

Science Option

MAJOR: Dairy 379, 390, 392, 394	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Entomology 374, Zoology 390, Sociology 431	25 Hours
FIRST MINOR: Animal Husbandry 358 and 373	10 Hours
SECOND MINOR: Agronomy 321 and 356	10 Hours
GENERAL ELECTIVES: To be approved by the Head of the Department	40 Hours

CONCENTRATION IN DAIRY PRODUCTION

Administration Option

MAJOR: Dairy 379, 390, 392, 394	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and 10 additional hours in Business Administration	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358	10 Hours
SPECIAL REQUIREMENTS: Economics 312, 330	10 Hours
ELECTIVES: To be selected with Departmental approval	30 Hours

CONCENTRATION IN DAIRY MANUFACTURING

Science Option

MAJOR: Dairy 350, 394, 395, 399	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Entomology 374, Sociology 431 and Economics 312 or Mathematics 356	25 Hours
FIRST MINOR: Dairy 389, 396	10 Hours
SECOND MINOR: Food Techology 300, 364 or Bacteriology 395, 409	10 Hours
GENERAL ELECTIVES: To be approved by the Head of the Department	40 Hours

CONCENTRATION IN DAIRY MANUFACTURING

Administration Option

MAJOR: Dairy 350, 394, 395, 399	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and 10 additional hours in Business Administration	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Entomology 374	10 Hours
SPECIAL REQUIREMENTS: Economics 312, 330	10 Hours
ELECTIVES	30 Hours

CONCENTRATION IN SANITARY SCIENCE

Science Option

Trained personnel in the fields of milk, food, environmental and general sanitation are needed for employment by governmental public health and regulatory agencies. The need for more personnel as trained sanitarians in the above fields will become greater as our population increases. Many states, including Georgia, have laws which require all registered sanitarians to be college graduates with a minimum of 40 quarter hours in the natural sciences. Sanitarians have been chosen primarily from dairy manufacturing graduates. The concentration in Sanitary Science will provide an excellent training for students to secure broad and applied training for employment as milk, food, environmental and general sanitarians by county, state and federal regulatory agencies.

MAJOR: Dairy 350, 394, 395, 396	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Chemistry 451, Entomology 373, 376, Mathematics 356 or Economics 312	25 Hours
FIRST MINOR: Dairy 389, Food Technology 395	10 Hours
SECOND MINOR: Bacteriology 410, 422	10 Hours
SPECIAL REQUIREMENTS: Agricultural Engineering 104, 105, Political Science 441, 442, 492	19 Hours
ELECTIVES: To be selected in consultation with the department head or faculty adviser	21 Hours

CONCENTRATION IN DAIRY PLANT MANAGEMENT

(Offered in the School of Business Administration)

For those students who wish to combine a technical knowledge of the dairy manufacturing industry with business administration training, the following special curriculum leading to the degree of Bachelor of Business Administration has been provided.

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101, 102	10	English 121, 122	10
Mathematics 100	5	Elective	5
Chemistry 121-122	10	Bacteriology 350	5
Economics 105, 106	10	Political Science 101	5
History 111, 112	10	Business Administration 108	3
Business Administration 101, 102, 103	3	Business Administration 110, 111	10
Military 1 or Air Science 5	6	Physical Science 101	5
Physical Education 1 (for men) or Physical Education 1 (for women)	0 / 5	Economics 133	5
		Military 2 or Air Science 6	6
		Physical Education 2 (for men) or Physical Education 2 (for women)	0 / 5
Total	54	Total	54

Junior

	Hours
Economics 312, 326, 360, 386	20
Business Administration 351, 370	10
Dairy 350, 389, 394	15
Total	45

Senior

	Hours
Business Administration 395	1
Business Administration 560, 564, 578	15
Dairy 395, 396, 399	15
Electives	17
Total	48

DAIRY

103. Elements of Dairying. 3 hours. *Mr. Henderson* and *the Staff.*

An elementary course in dairying, dealing with the following general subjects; relation of dairying to agriculture; application of the Babcock test to farm practices; care and handling of milk and cream on the farm; milk secretion; feeding, breeding, judging, and selection of dairy cattle.

301-302-303. Dairy Seminar. 1 hour each. *The Staff.*

Topical discussion of current problems and scientific work in dairying.

350. Dairy Chemistry. Prerequisite: Chemistry 121-122. *Mr. Sheuring.*

A basic study of the chemical and physical properties of milk; analysis of milk and milk products according to standard methods; functions and operations of a dairy control laboratory.

356.5. Dairy Cattle Fitting and Showing. 1 hour. *Mr. Dalton.*

Credit will be given for preparation of animal and showing the animal in the Little International Livestock Show.

358. Fundamentals of Animal Nutrition. Prerequisites: Zoology 226, Chemistry 260. *Mr. Fuller, Mr. Lassiter.*

A study of the fundamental principles of animal nutrition.

379. Dairy Herd Operations. Prerequisites: Dairy 103, Animal Husbandry 373. *Mr. Dalton.*

All phases of dairy herd management with special emphasis on the following: herd appraisal, auction sales; classification, health programs; applications for registry and health certificates; intra- and inter-state shipments of animals; dairy farm plans and practices.

380. Dairy Cattle Judging. 3 hours. *Mr. Dalton.*

A course planned to offer instruction in the judging of dairy cattle according to type and conformation.

385. Dairy Products Judging and Grading. 3 hours. *Mr. Sheuring.*

Scoring and grading of milk, butter, cheese, and ice cream.

388. Milk Sanitation. 3 hours. *Mr. Bennett.*

A course especially designed for students interested in employment in milk inspection work. Training is given in interpretation of the recommendations of the U. S. Public Health Service Milk Ordinance Code, inspection of dairy farms and plants, state and municipal dairy ordinances, and methods used in conducting a milk sanitation program.

389. Dairy Microbiology. Prerequisite: Bacteriology 350. *Mr. Bennett.*

Determination of numbers and types of bacteria; use of microorganisms in the manufacture of dairy products; study of milk fermentations and disease producing organisms applicable to milk.

390. Dairy Cattle Breeding. Prerequisite: Plant Pathology 358. *Mr. Fosgate.*

A study of factors involved in improving the genotype and phenotype of dairy cattle. Mating systems and techniques, production testing, type classification, sire proofs and pedigrees. Application of genetics, anatomy, endoctrinology, and physiology to improvement of dairy cattle.

392. DAIRY CATTLE NUTRITION. Prerequisites: Animal Husbandry 373, Chemistry 260. *Mr. Fosgate.*

The application of fundamental knowledge of nutrition, physiology, environment, and economics in the feeding and management of the dairy herd.

394. MARKET MILK AND RELATED PRODUCTS. Prerequisites: Dairy 103. *Mr. Sheuring.*

The sanitary and legal requirements for producing, handling and processing milk and related products; approved production methods; quality tests; processing operations; plant sanitation and efficiency.

395. DAIRY PLANT MANAGEMENT. Prerequisite: Dairy 103. *Mr. Sheuring.*

Fundamental principles of business and factory management practices as used in the dairy industry. Problems of personnel management, production methods, quality control, merchandising, dairy plant design and construction, records and business methods involved in dairy plant operations.

396. BUTTER AND CHEESE TECHNOLOGY. Prerequisite: Dairy 389. *Mr. Sheuring.*

Theory and practices involved in the manufacture of dairy products through coagulation and precipitation phenomena as well as control fermentation; cheese varieties, butter, and fermented milks; starter activity; cheese ripening; and butter flavor development.

399. ICE CREAM MAKING. Prerequisite: Dairy 103. *Mr. Sheuring.*

Basic principles of ice cream mix composition, standardization, flavoring, stabilization, processing, freezing, merchandising, and storage of ice cream, sherbets, ices, and soft-serve dairy products.

411. MICROBIOLOGY OF MARKET MILK AND ICE CREAM. Prerequisites: Chemistry 260, and Dairy 389. *Mr. Bennett.*

Microorganisms found in market milk, ice cream, and related products and their relationship to spoilage of the products and to epidemiology.

412. (BACTERIOLOGY) MICROBIOLOGY OF BUTTER, CHEESE, AND CULTURED MILKS. Prerequisites: Chemistry 260, and Dairy 389. *Mr. Bennett.*

Metabolic changes resulting from the growth of microorganisms occurring in milk and cream intended for manufacturing dairy products, and in butter, cheese, and cultured milks; bacteriophage affecting dairy microorganisms.

491. ARTIFICIAL INSEMINATION. 3 hours. Prerequisite: Zoology 390, Dairy 379, 390, or Animal Husbandry 405 or equivalent. *Mr. Fosgate.*

A study of the techniques involved in artificial insemination of farm animals with major emphasis placed on dairy cattle. The principle involved in semen production, collection, evaluation and use for insemination will be discussed.

493. MILK SECRETION. 3 hours. Prerequisites: Zoology 390, Dairy 379, 390, or equivalent. *Mr. Fosgate.*

The application of certain fundamentals of anatomy, biochemistry, and physiology to a study of mily secretion. The relationship of various farm practices to maximum milk yields will be discussed from the fundamental standpoint.

GRADUATE COURSES

800. DAIRY CHEMISTRY. Prerequisites: Dairy 350, 389, 394, or equivalent. *Mr. Sheuring.*

A comprehensive study of the fundamental chemical and physical properties of milk and milk products. The basic laws concerning factors that affect the chemical composition, pH, viscosity, surface tension and coagulation of milk will be studied. The course will consist of lectures, discussions, surveys of literature, and special reports.

801. THE NUTRITIONAL PROPERTIES OF DAIRY PRODUCTS. Prerequisites: Chemistry 451, Dairy 800 or their equivalent. *Mr. Sheuring.*

A study of the basic nutritional properties of the constituents of milk and milk products and the effect of processing and storage methods upon these nutritive values.

802. THE CHEMICAL ANALYSIS OF DAIRY PRODUCTS. Prerequisites: Chemistry 380, Dairy 800 or their equivalent. *Mr. Sheuring.*

Theory and practice in analytical methods used for control and research in dairy chemistry; analysis of milk, fat, protein, lactose, lactalbumin, lactoglobulin, and minerals; methods of determining hydrolytic and oxidative rancidity; factors involving rennin action, surface tension, viscosity and freezing point determinations. The course consists of lectures and laboratory assignments.

803. PHYSICAL CHEMISTRY OF DAIRY PRODUCTS. Prerequisites: Chemistry 390, Dairy 802, or their equivalents. *Mr. Sheuring.*

Lectures and laboratory exercises concerning oxidation-reduction potentials, surface tension, absorption, plasticity, isoelectric point of proteins, collodial properties of milk constituents, emulsions, and molecular dispersions as related to milk and milk products.

805-806. SPECIAL PROBLEMS IN DAIRY CATTLE FEEDING AND MANAGEMENT. 10 hours. Prerequisite: Dairy 390, 392, 394 or equivalent. *The Staff.*

A study of research work on the subject with special problems to be selected.

819. ADVANCED DAIRY TECHNOLOGY. Prerequisites: Dairy 800, Physics 334, or their equivalents. *Mr. Sheuring.*

A study of basic chemical, physical, bacteriological and mechanical problems involved in the engineering and design of dairy processing equipment; theories of heat transfer, thermodynamics; thermal properties of solids and liquids; properties of metals, utilization of high pressures, partial vacuums and mechanical principles as affecting design, construction and operation of dairy equipment.

820. DAIRY TECHNOLOGY PROBLEMS. Prerequisites: Two graduate courses in dairying or their equivalents, and the consent of the major professor. *Mr. Bennett* and *Mr. Sheuring.*

A special course for students qualified to carry out individual projects in dairy production, bacteriology, of manufacturing. Work to be done independently of the regularly scheduled classes. The course is available only to advanced graduate students and with the consent of the major professor.

930. THESIS RESEARCH IN DAIRYING. 5 to 50 hours.

Offered any quarter to meet the needs of any candidate for a degree of Master of Science. Open only to graduate students majoring in the field of dairying.

ENTOMOLOGY

(Biological Science Building, South Campus)

Head: Lund. Staff: Hunter, Johnson, Jordan, Paul, Robertson.

It is generally recognized that a thorough knowledge of insect control is necessary for the successful growing of either farm plants or farm animals and should, therefore, be a part of the training of all agricultural personnel. In addition many positions in teaching, research, control, and extension entomology exist in colleges and universities, experiment stations, state departments of entomology, the United States Department of Agriculture, the United States Public Health Service, and in various private concerns doing pest control or insecticide compounding or manufacturing. Advanced study leading to advanced degrees and to highr teaching and research positions is also available. The entomology major provides an excellent pre-medical program.

Students who specialize in entomology receive training in the identification of insects and the damage they cause, their structure, habits, and control.

Students who plan to major in Entomology should include Mathematics 101 and Chemistry 340b in their freshman-sophomore courses.

CONCENTRATION IN ENTOMOLOGY

Science Option

MAJOR: Four senior division courses in Entomology, three of which much be chosen from Entomology 373, 374, 376, 477..... 20 Hours

SCIENCE SELECTIONS FROM: Bacteriology 350, Plant Pathology 358 and three additional courses from the following: Botany 375, Botany 380, Geology 125, Plant Pathology 353, Zoology 390, Mathematics 356..... 25 Hours

FIRST MINOR: To be approved by Head of Department..... 10 Hours

SECOND MINOR: Must be in College of Agriculture..... 10 Hours

ELECTIVES AND SPECIAL REQUIREMENTS..... 40 Hours

To be chosen with the objective of obtaining information that will contribute most to students' basic knowledge for effective work in Entomology, and to be approved by the major professor. Philosophy 358 and 10 hours of a foreign language are required.

CONCENTRATION IN ENTOMOLOGY

Administration Option

MAJOR: Four senior division courses in Entomology, three of which must be chosen from Entomology 373, 374, 376, 477..... 20 Hours

AGRICULTURAL ECONOMICS: 304, 408, 467..... 15 Hours

BUSINESS ADMINISTRATION: 110, 370 and an additional 10 hours in Business Administration approved by major professor..... 20 Hours

SCIENCE SELECTIONS: Plant Pathology 353, 358..... 10 Hours

SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312, Agricultural Economics 469 or Economics 330, Philosophy 358 15 Hours

ELECTIVES: To be selected with approval of major professor..... 25 Hours

ENTOMOLOGY

373. GENERAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Paul.*

A field and laboratory study of the structure, biology, and classification of insects and of their general importance and significance to man.

374. ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Paul.*

A course designed to provide the practical information essential for the recognition and control of the insect pests most commonly encountered in the field, orchard, garden, woodlot, and home.

375. FOREST ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*

A study of the biology, identification, and control of the species of insects destructive to American forests.

376. MEDICAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*

A study of biology, identification, and control of the species of insects and related arthropods of particular importance in the cause of transmission of diseases of man and the lower animals.

474. ADVANCED ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisite: One of the following entomology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*

An advanced treatment of economic entomology, including actual field work in experimental methods, biological control, and the insect transmission of plant diseases.

477. CHEMISTRY AND TOXOCOLOGY OF INSECTICIDES AND FUNGICIDES: Three lectures and two double laboratory periods. Prerequisites: one course in organic chemistry and one of the following entomology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*

A study of the physical and chemical behavior of insecticides, and accessory materials and of their toxicological effects upon plants and animals.

480. Introductory Acarology. Three lectures and two double laboratory periods. Prerequisite: One of the following Entomology courses: 373, 374, 375, 376. For graduate credit, one additional senior division course is required. *Mr. Hunter.*

Structure, classification, and biology of mites and the control of those forms known to be of importance to the health and welfare of man.

573. Field and Stream Biology with Emphasis on Insects and Related Forms. Two lectures and three double laboratory periods. Prerequisite: Two elementary courses in biological science and two courses numbered 300 or above in biological science or education. *Mr. Paul.*

A study of insects and related forms found on land and in water; their identification and life habits, and the control of noxious forms, with emphasis on the use of these forms in the teaching of high school biology.

GRADUATE COURSES

805. Insect Parasites. Prerequisites: Entomology 376 and one additional senior division course in entomology. *Mr. Lund.*

An advanced study of the structure, life-histories, and identification of those insects and related arthropods which cause or transmit disease in man or lower animals.

871. Taxonomy of Insect Larvae. Two lectures and three double laboratory periods. Prerequisites: Any one of the following: Entomology 373, 374, 375, or 376 and one additional senior division course. *Mr. Lund.* (Offered alternate years).

A study of the classification, biology, and phylogenetic and economic significance of insect larvae.

873. Advanced General Entomology. Three lectures and two double laboratory periods. Prerequisites: Entomology 373 and one additional senior division course are required. *Mr. Lund.* (Offered alternate years).

An advanced treatment of general entomology, including biological nomenclature, insect evolution and classification, sensory physiology, and other special topics.

DEPARTMENT OF FOOD TECHNOLOGY

(Food Technology Building, South Campus)

Head: Powers. Staff: Flanagan, Hamdy, May and Pratt.

The food processing industry is a 79 billion dollar industry in the United States. The industry is approximately four times larger than the next largest manufacturing industry. Because of the size of the food industry, the high percentage of foods which are marketed as a processed food rather than as a fresh or raw product, because improvements and new developments are the life-blood of the American competitive system, and because other industries closely related to the food industry, such as the packaging industry, employing food technologists — there is a constant demand for college graduates with training in food technology.

The Department of Food Technology offers both undergraduate and graduate instruction designed to give basic, technical training for such industries as canning, freezing, pickling, preserving, meat and poultry processing, and the preparation and preservation of specialty food products. Superior students are encouraged to undertake graduate study because of the greater opportunities open to food technologists with an advanced degree. The department offers major work for the Master of Science and Doctor of Philosophy degrees.

Briefly, occupations open to graduates are: research and development work in industry; production work in industry such as in canneries,

freezing plants, and meat and poultry processing plants; technical sales within the food field itself or in closely related fields such as the container and equipment manufacturing fields; food inspection and grading with federal, state, or municipal agencies; teaching; extension work; research work in experimental stations and in other branches of government; food consulting; and promotional work with public or private utilities.

Usually some financial assistance is given students in the form of part-time employment as student helpers either as a part of College Experiment Station research projects or research supported by industrial grants-in-aid. The College of Agriculture has general scholarships, for which students may apply, by writing to the Director of Resident Instruction. The Department of Food Technology has a limited number of scholarships available for majors in food technology. Details as to application for the latter scholarships may be secured from the Head of the Food Technology Department.

Scholarships are also available through the Institute of Food Technologists. The Dodge and Olcott Company sponsors one scholarship of $1,000; the F. Ritter & Company sponsors a scholarship of $1,000; and the Gerber Products Company sponsors six scholarships of $1,000 each. Selection of the scholarship holders is made by the Institute of Food Technologists and application must be made to the Institute. The Food Technology Department can furnish information concerning the method of application.

The Institute of Food Technologists also awards graduate fellowships. Three scholarships of $4,000 are sponsored by the General Foods Corporation, one fellowship of $1,000 by the Florasynth Company, and one fellowship of $1,000 by the Refrigeration Research Foundation. Details as to the mode of application can be secured from this Department or from the Institute of Food Technologists.

The Department has outstanding facilities for instruction and for research. It is housed in a new building completed in 1959 and exceeding one million dollars in cost. Facilities are available for the processing of all types of meat, poultry, and horticultural products, for food packaging studies, and for radioisotopic, chemical, and microbiological studies involving foods.

Programs of study are worked out individually for each student. The general requirements are outlined below.

REQUIREMENTS FOR A MAJOR IN FOOD TECHNOLOGY

The Food Technology Department offers two concentrations with a major in Food Technology.

Concentration in Food Science: This concentration is designed for students who intend to enter graduate school, work in industrial research and development, or in other activities calling for a high degree of scientific competence.

Concentration in Food Technology Administration: This concentration is designed for students whose interests and ability lean more toward the management side of the food industry than the scientific phases.

CONCENTRATION IN FOOD SCIENCE*

Science Option

MAJOR: Food Technology 300, 411, 414, and one other 5-hour food technology course	20 Hours
SCIENCE SELECTION: Bacteriology 350, Chemistry 380, and 15 additional hours to be selected in consultation with departmental adviser	25 Hours
FIRST MINOR: Any department in the University	10 Hours
SECOND MINOR: Any department in the College of Agriculture	10 Hours
SPECIAL REQUIREMENT: Food Technology 423	5 Hours
ELECTIVES	35 Hours

CONCENTRATION IN FOOD TECHNOLOGY

Administration Option

MAJOR: Food Technology 300 and 15 additional hours in Food Technology	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467	15 Hours
BUSINESS ADMINISTRATION: 110, 151, 370, and an additional 5-hour course approved by Food Technology Department	20 Hours
SCIENCE SELECTIVES: Bacteriology 350 and Mathematics 101	10 Hours
SPECIAL REQUIREMENTS: 10 hours of course work in statistics and finance	10 Hours
ELECTIVES	30 Hours

FOOD TECHNOLOGY

300. FOOD PRESERVATION. Three lectures and two 2-hour laboratories. *Mr. Powers, Mr. Pratt.*

Chemical, microbiological, and enzymatic changes occurring in foods and the control of such activity by various methods of processing and storage will be studied. Consideration will be given to questions of public health, nutritive value, quality of the finished product, and governmental regulations.

364. TECHNOLOGY OF FROZEN AND REFRIGERATED FOODS. 3 hours. Two lectures and one 2-hour laboratory. *Mr. Pratt.*

Chemical and physical changes encountered during freezing and refrigerated storage of foods, causes of spoilage, packaging, the retention of nutrients, and quality control. Principles of basic refrigeration systems and equipment and methods used in freezing fruit, vegetable, meat, and marine products at home, in locker plants, and as large commercial enterprises.

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*To meet the minimum requirement recommended by the Institute of Food Technologists for a major in food technology, a student should follow the Food Science Concentration and should select his Freshman-Sophomore agricultural electives and general electives, the science selectives, the minors, and Junior-Senior electives such that he will reach the following levels of attainment: Chemistry 121, 122, 223, 260, 380, 451, 490a, 490b, and 490c; Mathematics 100, 101, 210, 254, and 255; Physics 120, 127 (or 128), and one additional 5-hour course in physics; 5 credit hours in nutrition; 25 hours in biological science, including Bacteriology 350 and Food Technology (Bacteriology) 395; 15 hours of Unit Operations (Agricultural Engineering 209 and 230 and certain other courses in engineering, physics, or food technology); 25 hours of food technology courses; 15 hours in English and speech; and not less than 24 hours in economics, the humanities, and social science. By proper selection of courses, a student can comply with all the requirements of the Curriculum of the College of Agriculture and the recommended curriculum of the Institute of Food Technologists. Variations from the course of study recommended by the Institute of Food Technologists are permitted—in consultation with the major adviser—provided the program meets the general requirements of the College of Agriculture.

365. MEAT CUTTING. Prerequisite: Bacteriology 350. *Mr. Flanagan.*

Designed to teach basic information concerning meat quality and skills in cutting beef, pork, lamb, and poultry products.

367. FOOD INDUSTRIES SURVEY. Prerequisites: Food Technology 300, 409 or equivalent. *Mr. Powers.* (Offered alternate years. Offered 1960-61).

This course includes the study of the sources of raw materials, the processing, storage, and handling of such processed foods as sugar, flour, salt, and spices; and the problems involved in the production of these products.

368. MEAT PROCESSING. Prerequisite: Bacteriology 350. *Mr. Flanagan.*

This course includes instruction in killing, skinning, dressing of pork and beef; grading, care of hides; utilization of inedibles; curing of beef and pork; smoking, packaging, and storing of cured pork products.

386. (POULTRY) POULTRY MARKET PRODUCTS TECHNOLOGY. Prerequisites: Poultry 160 or Food Technology 300 or equivalent. *Mr. May.*

Methods of processing shell, fluid and dried eggs, live and dressed poultry, and packaging and marketing of poultry products.

395. (BACTERIOLOGY) MICROBIOLOGY OF FOODS. Two lectures and three 2-hour laboratories. Prerequisite: Bacteriology 350. *Mr. Hamdy.*

Microorganisms in natural and processed foods; their origin, nature, and effects on foods; enumeration; relations to health.

409. COMMUNITY AND HOME FOOD PRESERVATION. Prerequisites: Bacteriology 350 and Chemistry 260 or equivalent. Three lectures and two 2-hour laboratories. *Mr. Powers, Mr. Pratt.*

The principles of food preservation will be studied with reference to present practices and possible improved practices in home and community food preservation. The effect of various methods of food preservation will be evaluated in terms of public health, food spoilage, food quality, and the nutritional value of the foods.

411. FOOD TECHNOLOGY PRINCIPLES AND INDUSTRIAL PRACTICES. Prerequisites: Bacteriology 350, Chemistry 260 and Food Technology 300 or 409. Two lectures and two 2-hour laboratories. *Mr. Powers.*

Biochemical, colloidal, enzymatic, microbial, and physical changes occurring in foods during processing will be integrated to show the fundamental principles of food technology. Present practices, the application of research and food technology principles to the development of better products, and the food purity laws will be among the subjects studied.

412. FOOD TECHNOLOGY PRINCIPLES AND INDUSTRIAL PRACTICES. (Continued). *Mr. Pratt.*

414. CHEMICAL AND MICROSCOPIC FOOD ANALYSIS. Prerequisites: Bacteriology 350, Chemistry 260, Food Technology 300 or 409. One lecture and two 4-hour laboratories. *Mr. Hamdy.*

Chemical, microscopic, and organoleptic methods of food examination basic to the detection of adulteration, to food grading, and to quality control.

415 a-b. FOOD TECHNOLOGY SEMINAR. Prerequisites: Any two senior division courses in Food Technology. 2 hours each. *The Staff.*

A discussion course, required of all students majoring in the department in which journal articles from basic and applied fields of science are assigned, presented, and discussed.

415c. FOOD TECHNOLOGY SEMINAR. 1 hour. Same as the above course.

421. (BACTERIOLOGY) MICROBIAL FOOD ANALYSIS. Prerequisite: Food Technology 414. One lecture and two 4-hour laboratories. *Mr. Hamdy.*

Microbiological, physical, and mathematical considerations involved in determining thermal death rates, rates of heat penetration, and in calculating the lethality of processes will be studied with particular references to spore-forming anaerobes. Isolation, enumeration, and factors affecting sporogenesis, dormancy, and spore germination will be studied. The General Method, Ball's Method, and the newer concepts of process calculation will be compared.

422. INSTRUMENTAL METHODS OF FOOD ANALYSIS. Prerequisite: Food Technology 414. Two lectures and two 4-hour laboratory periods per week. *Mr. Pratt.*

Polarographic, spectrophotometic, colorimetric, and potentiometric methods of analysis as applied to food will be studied. Emphasis will be placed upon correlation and interpretation of results.

423. Food Packaging. Prerequisite: Food Technology 412 and 414. Two lectures and three 3-hour laboratories. *Mr. Pratt.*

Physical, chemical, microbiological, and economic problems related to food packaging. Characteristics and uses of metal, glass, paper, and flexible film packaging materials and containers. Methods of testing packages and packaging materials for performance such as physical strength, water-vapor permeability, organic vapors transmission, odor transmission, greaseproofness, and humidity equilibria of foods.

424. Advanced Technology of Meat, Fish, and Poultry Processing. Prerequisites: Food Technology 411, 414, and 421. *Mr. Hamdy* and *Mr. Powers.*

Advanced theoretical and applied concepts relating to physical, chemical, enzymatic, and microbial changes occurring in meat, fish, and poultry products during processing will be studied with particular reference to canning, curing, freezing, refrigeration, spoilage of fresh and processed flesh products, and the use and development of by-products.

GRADUATE COURSES

800. (Bacteriology) Industrial Fermentations. Prerequisites: Bacteriology 350 and Chemistry 451. Three lectures and two 3-hour laboratories. *Mr. Hamdy.* (Offered alternate years; not offered 1960-61).

The ketogenic fermentation process, production of organic acids, enzymes, vitamins, antibiotics, dextran and other products from agricultural or industrial starting materials will be studied. Emphasis on theoretical or fundamental reactions involved and conditions affecting fermentation efficiency.

819-820. Methods in Food Technology. Prerequisite: Food Technology 414. Two discussion periods and six laboratory periods per week. Mr. *Powers* and *Staff.*

Selected problems associated with food preservation will be studied intensively to extend the student's knowledge of food technology principles and to develop greater facility in the appreciation of scientific methods to the solution of new problems. Principles and techniques from both basic and applied fields of science will be studied.

821. Thermal and Radiation Sterilization of Foods. Prerequisites: Mathematics 255, or permission of the instructor; Food Technology 411 and 421; Bacteriology 409. Two lectures and three 3-hour laboratories. *Mr. Pratt.*

Mathematical, chemical, physical, and biological considerations affecting thermal and radiation process requirements of foods. Emphasis will be placed on death-rates of spoilage microorganisms and destruction-rates of enzymes when these are subjected to different heating conditions and different sources of radiation. Dstruction-rates of spoilage agents will be integrated with heat and radiation penetration rates to derive processing time.

856. (Chemistry) Protein Chemistry. Prerequisite: Chemistry 451. Three lectures and two 3-hour laboratories. *Mr. Hamdy.* (Offered alternate years; offered 1960-61).

An examination of the current literature on proteins, their structure, isolation, denaturation, enzymic and other biological activity. Consideration will be given to the physicochemical properties, ion-protein interaction, and chemical modifications of proteins.

GENERAL AGRICULTURE

(Conner Hall, South Campus)

This concentration, known as General Agriculture, is open to any junior and senior student in the College of Agriculture. It is a combination of courses selected from all departments in the College. Students wishing to register for this program should report to the Director of Resident Instruction.

The science option in General Agriculture is recommended for students wishing to prepare themselves for *general farming.* As compared with majoring in any specific department, it may offer greater freedom in course selection.

CONCENTRATION IN GENERAL AGRICULTURE

Science Option

MAJOR: Agronomy 321 and 356, Animal Husbandry 358, Agricultural Economics 301 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353 and 358, Entomology 374, Botany 380 or Zoology 390 ..... 25 Hours

FIRST MINOR: Animal Husbandry 371, Poultry 371, Dairy 392 (any two courses) ..... 10 Hours

SECOND MINOR: Horticulture 362, Plant Pathology 356, 357, Agronomy 320, 332, 458 (any two courses) ..... 10 Hours

SPECIAL REQUIREMENTS: Food Technology 409, Agricultural Engineering 203 ..... 11 Hours

GENERAL ELECTIVES ..... 30 Hours

DEPARTMENT OF HORTICULTURE

(Livestock-Poultry Building, South Campus)

Division Chairman and Head: Johnstone. Staff: Bowden, Bruce, Curtis, Daigle, Pokorny.

The Department of Horticulture offers courses designed to train young men and women for jobs in both the business and science of horticulture. For this purpose, and in keeping with modern trends, there are two general options which may be followed.

The administration option is designed for those students desiring to farm with vegetable, fruit, flower or nursery crops; to manage contracting or landscape nurseries; to enter the retail or wholesale florist business; or to become associated with businesses supplying or serving horticultural industries.

The science option is designed primarily for persons going into research or instruction. Usually such students sooner or later work towards advanced degrees. However, there are terminal positions as scientific aids, technicians, inspectors in regulatory services, fieldmen for canneries, technical representatives with allied industries, etc.

Within each of the above two general options, students may also concentrate in one of the several natural divisions of horticulture. These are floriculture, ornamental horticulture, pomology (fruit crops), and olericulture (vegetable crops). Students desiring to go on into research, instruction, or extension work would usually follow a general horticultural curriculum rather than concentrating in one of the natural crop divisions.

CONCENTRATION IN HORTICULTURE

Administration Option

MAJOR: Selected junior and senior courses in horticulture ..... 20 Hours

AGRICULTURAL ECONOMICS: 304, 408, 467 ..... 15 Hours

BUSINESS ADMINISTRATION: 110, 370, and 10 other selected hours approved by adviser ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Entomology 374, Plant Pathology 353 and 358 ..... 10 Hours

SPECIAL REQUIREMENTS: Economics 312 or Mathematics 356, Economics 330 or Agricultural Economics 469 ..... 10 Hours

ELECTIVES*: Approved by faculty adviser ..... 30 Hours

CONCENTRATION IN HORTICULTURE

Science Option

MAJOR: Selected junior and senior courses in horticulture ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353 and 358, Entomology 374 ..... 25 Hours

FIRST MINOR: To be approved by Head of Department. Two junior or senior courses in any one department of the University ..... 10 Hours

SECOND MINOR: Two junior or senior courses in any department of the College of Agriculture. To be approved by Head of Department ..... 10 Hours

ELECTIVES*: Approved by faculty adviser ..... 40 Hours

HORTICULTURE

101. GENERAL HORTICULTURE. 3 hours. *Mr. Curtis.*

A survey of the field of horticulture with discussions of the principles and practices used in vegetable, fruit, flower, and ornamental plant production.

308. PRINCIPLES OF HORTICULTURE. Prerequisite: Botany 121, 122. *Mr. Curtis.*

A study of the principles of plant growth as they are applied to the production of horticultural crop plants. Emphasis is placed on the effect of temperatures, light, nutrients, and water on growth and development. This course required of majors in horticulture.

310. GREENHOUSE CONSTRUCTION AND MANAGEMENT. 3 hours. *Mr. Bowden.*

Emphasis is placed upon types of greenhouses and methods of construction; geographical and topographical locations; structural materials; heating; equipment; plans; estimates; irrigation; and management. Cloth and lath or slat houses; coldframes and hotbeds; pits and storage houses.

311. FLORAL DESIGN. 3 hours. *Mr. Bowden.*

The commercial aspects of floral design. Emphasis is placed upon the science, art, and psychology of color; line and design; floral designs, basket and bowl arrangements; church, house, hotel and wedding decorations as well as wedding bouquets, corsages and emblems.

316. FLOWER STORE MANAGEMENT. 2 hours. *Mr. Bowden.*

A study of materials, equipment, supplies, and arrangement of retail floral shops. Sources of flowers and supplies.

321. (LANDSCAPE ARCHITECTURE) THE MAINTENANCE OF ORNAMENTAL PLANTINGS AND LANDSCAPE MANAGEMENT. 3 hours. Prerequisite: Horticulture 101. *Mr. Johnstone.*

Formulation and study of a work program which considers those essential operations contributing to the successful landscape management of grounds. Methods of maintaining lawns, hedges, perennial and annual beds and borders, walks, pools, trees, specimen plants and other ornamental plantings.

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*Note: Suggested electives for both options: Agricultural Economics 304, Agronomy 324, 356, 423, 459, Animal Husbandry 373, Botany 305 or 306, 323, Chemistry 223, Food Technology 363 or 409, Geology 125, Landscape Architecture 313, 351, 352, Plant Pathology 357, Business Administration 370, 560, 561, 562, 563, Advanced Military or Air Science. Additional horticultural courses. Electives to be adapted to fit student requirements, as approved by Head of Department.

353. SPRAYS, DUSTS, AND FUMIGANTS AND THEIR APPLICATIONS. Prerequisites: Plant Pathology 353 and Entomology 374. *Mr. Curtis.*

Selection, preparation, and application of sprays, dusts, and fumigants for the control of insects, diseases, weeds, and other pests of horticultural crops. Especial attention is given to spraying and dusting schedules, effects of various chemicals on different kinds of plants, ecological factors, residues, application machinery, and economical considerations. The practical side of pest control is stressed.

362. PLANT PROPAGATION AND NURSERY PRODUCTION. Prerequisite: Horticulture 101, or Botany 121, 122. *Mr. Pokorny.*

Principles and practices of plant propagation as applied primarily to horticultural crops. The culture and care of nursery properties are also considered.

363. NURSERY MANAGEMENT. Prerequisite: Horticulture 362 or permission of the instructor. *Mr. Pokorny.*

Designed for students interested in the problems of nursery management and production, including the history and development of the nursery business today.

400. HORTICULTURAL SEMINAR. 1 hour. *The Staff.*

Open to all students in related fields. Attendance without registering for credit is permitted. Papers on selected topics to be presented by advanced students, faculty members, and guest speakers.

401. THE FUNDAMENTALS OF FRUIT PRODUCTION. Prerequisites: Botany 380, Horticulture 353 or Plant Pathology 353, or equivalent. *Mr. Curtis.*

This course deals with the biological and chemical principles of plant life as directly applied to the economic production of fruit crops.

402. ADVANCED POMOLOGY. Prerequisites: Horticulture 401, Plant Pathology 357, Entomology 374. *The Staff.* (Offered alternate years).

Photosynthesis, respiration, transpiration, translocation and other physiological processes as they are related to problems in fruit production. The effects of environmental factors on vegetative growth, flowering and fruiting are also considered. A comprehensive review of the literature on research which has led to solutions of problems in production is a part of the course.

403. THE PRINCIPLES OF VEGETABLE PRODUCTION. Prerequisites: Botany 380, Entomology 374. *Mr. Johnstone.*

A study of the principles and practices involved in the production of vegetable crops. The literature on research having to do with the development of olericulture is reviewed and studied in relation to current problems.

404. ADVANCED OLERICULTURE. Prerequisites: Plant Pathology 353 and Horticulture 403. *Mr. Johnstone.* (Offered alternate years).

Photosynthesis, respiration, translocation, transpiration and other physiological processes as they are related to problems in vegetable production. The reaction of the above to changes in environmental factors, and the interaction of the above to changes in environmental-genetical factors upon vegetative growth, flowering, and fruiting are stressed. Research literature is thoroughly reviewed.

405. FLORICULTURE. Prerequisites: Botany 380 and Horticulture 308. *Mr. Bowden.*

Fundamental principles of plant growth and the effects of environmental factors such as temperature, water, air, nutrients, photoperiod and light intensity as they are related to cut flowers and potted plants grown under glass.

406. ADVANCED FLORICULTURE. Prerequisites: Botany 323 and Horticulture 405. *Mr. Bowden.*

A comprehensive review of pertinent scientific literature and research on the ecology, physiology and other growth processes, storage, transportation, and distribution of commercial cut flowers and potted plants.

407-408. SPECIAL PROBLEMS IN HORTICULTURE. 2-5 hours each. For summer work 10 hours must be selected. Prerequisites: Horticulture 101, and at least 10 hours in one of the horticultural concentrations, or equivalent in experience or other combinations of courses. *Mr. Bowden, Mr. Curtis,* and *Mr. Johnstone.*

For the advanced undergraduate or graduate student who wishes to gain practical experience. Required of all major students who do not have a farm or plant production background. Graduate students must schedule at least 5 hours a quarter and must undertake a minor research problem under direction of a staff member.

421. THE HANDLING, PREPARATION FOR MARKET, AND STORAGE OF FRUITS AND VEGETABLES. Prerequisites: Two senior college courses in fruits or vegetables. *Mr. Johnstone.*

Physiology of maturation and the effects of temperature, light bruising and other factors on ripening. Also the relation of the above to various operations and equipment used in harvesting, handling, preparation for market and storage of fruits and vegetables.

GRADUATE COURSES

801. HORTICULTURAL CROP IMPROVEMENT. Prerequisite: Plant Pathology 358, 401 or equivalent. *Mr. Johnstone.*

A study of the applications of the principles of genetics and plant breeding to the modification and improvement of horticultural plants. The maintenance of improved strains and seed production are also considered.

809. THE HISTORY, LITERATURE, AND DEVELOPMENT OF HORTICULTURE. Prerequisites: Two senior college courses in Horticulture. *Mr. Curtis.*

This course traces the important steps in the development of the applied science of horticulture as it is today. Particular reference is made to contributions of outstanding leaders in horticultural enterprises and organized research.

DEPARTMENT OF PLANT PATHOLOGY AND PLANT BREEDING

(Food Technology Building, South Campus)

Division Chairman and Head: Owen. Staff: Browne, Fleming, Kozelnicky, Thompson.

The introduction of many new diseases of agricultural crops and the importance placed on breeding plants for resistance to diseases has greatly increased the demand for trained personnel in these fields.

The specialized courses given in this department are designed to give instruction in the agencies causing diseases in plants and their effects upon the plant. They also include the principal methods by which these diseases may be controlled. The student also receives training in the principles and methods used in development of new varieties or strains of cultivated plants which are better adapted to agricultural uses and which are more resistant to certain diseases.

Students who specialize in this department receive training that will prepare them for work in the following fields:

1. Experiment station or U. S. D. A. specialists
2. Agricultural Extension specialists
3. State plant inspectors
4. Research or sales promotion workers for manufacturers of fungicides or insecticides
5. Plant breeders or other personnel for commercial seed companies.
6. Specialized types of agriculture such as commercial plant growers or producers of certified seed
7. Preparation for advanced study in fields of plant pathology or plant breeding leading toward the doctorate.

The outline study is so arranged that the student may concentrate on diseases or breeding of crops with which he will later be concerned. The following concentrations are proposed but can be modified within a fairly wide degree of latitude depending upon the requirements of the student.

CONCENTRATION IN PLANT PATHOLOGY

Science Option

MAJOR: Plant Pathology 356, 357, 420-421 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353, 358, Mathematics 356 or Economics 312 ..... 25 Hours

MINOR 1: Entomology 374, 477 ..... 10 Hours

MINOR 2: Botany 323, 327 ..... 10 Hours

ELECTIVES FROM THE FOLLOWING: Agronomy 320, 321, 324, 356, Botany 305, 358, 483, French 103, 104, German 103, 104 205, Horticulture 308, 353, 401, 403, Plant Pathology 401, 402, 425 ..... 40 Hours

CONCENTRATION IN PLANT PATHOLOGY

Administration Option

MAJOR: Plant Pathology 353, 356, 357, 358 ..... 20 Hours

AGRICULTURAL ECONOMICS: 304, 408, 467 ..... 15 Hours

BUSINESS ADMINISTRATION: 110, 111, 368, 370 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Entomology 374 ..... 10 Hours

SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312, Agricultural Economics 469 or Economics 330 ..... 10 Hours

ELECTIVES FROM THE FOLLOWING: Agronomy 320, 324, 356, 461, Botany 305, 380, Entomology 373, 477, Horticulture 308, 353, Plant Pathology 402, 425 ..... 30 Hours

CONCENTRATION IN PLANT BREEDING

Science Option

MAJOR: Plant Pathology 356 or 357, 358, 401, 402 ..... 20 Hours

SCIENCE SELECTION: Bacteriology 350, Botany 380, Entomology 374, Mathematics 356 or Economics 312, Plant Pathology 353 ..... 25 Hours

MINOR 1: Two senior division courses in College of Agriculture to be approved by the major professor ..... 10 Hours

MINOR 2: Botany 323, 375 ..... 10 Hours

ELECTIVES FROM THE FOLLOWING: Agricultural Economics 301, 304, 364, Agronomy 320, 321, 324, 332, 356, 425, 461, Botany 305, 358, 483, Animal Husbandry 371, 372, 373, Geology 125, Horticulture 353, 362, 401, 403, Zoology 401, or any other appropriate senior division courses approved by major professor ..... 40 Hours

CONCENTRATION IN PLANT BREEDING

Administration Option

MAJOR: Plant Pathology 353, 356 or 357, 358, 402 ..... 20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 ..... 15 Hours
BUSINESS ADMINISTRATION: 110, 111, 368, 370 ..... 20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Entomology 374 ..... 10 Hours
SPECIAL REQUIREMENTS: Agricultural Economics 469 or Economics 330, Mathematics 356 or Economics 312 ..... 10 Hours
ELECTIVES FROM THE FOLLOWING: Agronomy 320, 321, 324, 332, 356, Botany 305, 375, 380, Entomology 373, Horticulture 308, 353, 362, 401 ..... 30 Hours

PLANT PATHOLOGY AND PLANT BREEDING

353. ELEMENTARY PLANT PATHOLOGY. Three lectures and two laboratory periods. Prerequisites: Botany 121, 122. *Mr. Owen.*

A general introduction to the diseases of plants. Representative types will be studied in field and laboratory.

356. DISEASES OF FIELD CROPS. Three lecture and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Owen.*

A course designed to meet the needs of students in plant pathology and agronomy.

357. DISEASES OF HORTICULTURAL CROPS. Three lecture and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Thompson.*

A study of the more important diseases of fruits, vegetables ,and ornamentals.

358. AGRICULTURAL GENETICS. Prerequisites: Botany 121-122, or Zoology 225-226. *Mr. Fleming.*

An introductory course in agricultural genetics designed to acquaint the student with principles of heredity and variation and their application to breeding.

383. (FORESTRY) FOREST PATHOLOGY. 3 hours. *Mr. Thompson.*

This course is similar to Plant Pathology 353, but differs in the use of types causing death or decay in trees. Methods of control suitable to both forest and city conditions are studied.

401. PLANT GENETICS. Prerequisite: Plant Pathology 358. *Mr. Fleming.*

Advanced studies in inheritance of plants, including the genetics of sterility and disease resistance, linkage, application of chi-square to genetic experiments; cytoplasmic and quantitative inheritance; mutations and radiation.

402. PLANT BREEDING. Prerequisite: Plant Pathology 358. *Mr. Fleming.*

Fundamental methods utilized in the science of plant breeding and the important role that breeding plays in crop and tree improvement.

420-421. MYCOLOGY. 5 hours each. Three lecture and two double laboratory periods. Double course. Prerequisites: Two suitable senior division courses in either botany, microbiology or zoology. *Mr. Owen.*

Comparative morphology of the fungi. Techniques of culture methods, isolation, sectioning, and inoculation are included.

425. PLANT NEMATOLOGY. Prerequisite: Plant Pathology 353 or 383. *Mr. Owen.*

Diseases of crop plants caused by nematodes, including a study of the symptoms, hosts, distribution, economic importance, dissemination, and control. The identification, classification, and pathogenicity of these plant parasites, along with the pathological anatomy of the diseased plant tissue showing the location of the parasite and its microscopic effect on the host cells are included.

GRADUATE COURSES

800-801. RESEARCH IN PLANT PATHOLOGY. 5 hours each. Prerequisites: Two senior division courses in Plant Pathology. *The Staff.*

This course involves the prosecution of a problem in plant disease with parallel reading and conferences with the instructor.

810-811. Research in Plant Genetics. 5 hours each. Prerequisites: Two senior division courses in Plant Pathology, Plant Breeding, or Botany. *Mr. Fleming.*

This series consists of a breeding problem with field studies, appropriate readings, and conferences.

812. (Agronomy) Specialized Plant Breeding. Prerequisites: Plant Pathology 353, 402, and one senior division course in crop production. *Mr. Brown, Mr. Fleming, Mr. Rogers,* and *Mr. Douglas.*

Conducted cooperatively by the Department of Agronomy and Department of Plant Pathology and Plant Breeding. A combination of lectures and laboratory periods in the greenhouse and experimental field with emphasis on fundamental practices and techniques used in the development of farm-crop varieties and hybrids. Opportunity for student to receive personal supervision.

POULTRY DEPARTMENT

(Livestock-Poultry Building, South Campus)

Division Chairman and Head: Driggers. Staff: Dembnicki, Edwards, Fuller, Hess, Huston, May, Page, Reid, Schmittle, Wheeler.

The courses in the Department of Poultry Husbandry are designed to prepare the student for work in the poultry industry, its allied fields, and to pursue graduate study.

Students who major in this department receive training that will prepare them for work in the following fields:

1. Commercial poultry farming.
2. The feed industry: diet formulation, sales and service, and quality control.
3. The processing industry: plant operation and personnel management.
4. Experiment Station and Extension specialist.
5. The hatchery business: incubation and hatching egg production.
6. Advance study leading to the M.S. and Ph.D. in the fields of poultry nutrition, genetics, market products technology, pathology, and physiology.

Adequate facilities and technical equipment are available for both teaching and research uses. At the College Farm, located on the campus, facilities include 3 modern laying houses with a capacity of approximately 8,000 laying hens and sufficient modern brooder house space for rearing this stock. Several smaller laying and brooder houses are available for conducting research with smaller numbers. There are 18 pens of exhibition fowl for use by judging teams. Facilities also include a separate laboratory where constant temperatures can be maintained for heat tolerance studies with mature fowl; a nutrition laboratory wherein several thousand chicks can be grown to broiler age under uniform conditions for the conduct of fundamental nutrition research; and more than 100 breeding pens for teaching and research in poultry breeding and genetics.

A broiler research center is located 3 miles from Athens on the University's Whitehall Poultry Farm. This center includes facilities for growing 16,000 broilers experimentally under conditions approximating commercial broiler growing. This Farm includes facilities for brooding and rearing several thousand turkeys in confinement and approximately 350 acres of range land.

The Georgia Broiler-Breeder test brings to the campus the products of the nation's outstanding Broiler-Breeders for comparison.

The Southern Regional Poultry Genetics Laboratory is located at the University of Georgia. Here the results of research in poultry breeding at the 13 Southern Experiment Stations and Puerto Rico are brought together for evaluation and comparison. This activity focuses the attention of poultry breeders all over the country on the University of Georgia and its poultry program.

Students majoring in poultry have opportunities for experience in poultry disease diagnosis. Facilities for the study and diagnosis of diseases include The University of Georgia Poultry Disease Research Center and The School of Veterinary Medicine.

The poultry industry in Georgia ranks first among the agricultural enterprises which bring the greatest cash income to the farmers. The demand for well trained men in poultry husbandry far exceeds the number of graduates. The industry is growing constantly and as it grows the demand for trained men also increases. As a result the Georgia poultry industry has made available a number of scholarship programs.

INDUSTRY SCHOLARSHIPS. Scholarships of $200 provided by the poultry industry in Georgia are available in sufficient numbers so that high school graduates who are interested in studying Poultry Husbandry and who can meet the scholastic requirements can be accommodated.

MARBUT SCHOLARSHIPS. A scholarship fund of $2000 per year has been provided by the Marbut Milling Company of Augusta. This will provide one scholarship of $400 for an outstanding student in each of the four classes, and one additional scholarship of $400 which may be awarded to a student in any of the four classes.

STRAIN SCHOLARSHIP. Contributed by Strain's Feed and Coal Co. of Dalton, Ga. Provides $500 per year for one freshman or sophomore student. Applications limited to the following counties: Catoosa, Gordon, Murray, Walker, and Whitfield.

Inquiries concerning these scholarships should be directed to the Chairman of the Poultry Division and full information will be provided as to the necessary steps to be taken by the applicant. Applications should be received before March 1.

CONCENTRATION IN POULTRY

Science Option

MAJOR: Poultry 371, 373, 379, and an additional 15 hours in Poultry	26 Hours
FIRST MINOR: Any department in the College of Agriculture	10 Hours
SECOND MINOR: Any department in the University	10 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Poultry 358, Zoology 390, and other 5 hours on the list of approved Science Selections	25 Hours
GENERAL ELECTIVES	34 Hours

CONCENTRATION IN POULTRY

Administration Option

MAJOR: Poultry 371, 373, 379 and an additional 10 hours in Poultry	26 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and an additional 10 hours selected with departmental approval	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358	10 Hours
SPECIAL REQUIREMENTS: Poultry 358, Mathematics 356 or Economics 312, Agricultural Economics 469 or Economics 330	15 Hours
ELECTIVES: Selected with departmental approval	19 Hours

POULTRY

160. POULTRY PRODUCTION. 3 hours. *Mr. Driggers.*

An introductory course designed to provide basic information in poultry husbandry.

358. FUNDAMENTALS OF ANIMAL NUTRITION. Prerequisites: Zoology 226, Chemistry 260. *Mr. Fuller* and *Mr. Lassiter.*

A study of the fundamental principles of animal nutrition.

370. CULLING AND GRADING OF POULTRY. 3 hours. Prerequisites: Poultry 160 and junior standing or equivalent. *The Staff.*

Instructions and practice of methods of culling laying fowl, and a study of Federal and State grades of shell eggs, live and dressed poultry.

371. COMMERCIAL POULTRY MANAGEMENT. Prerequisite: Poultry 160. *Mr. Driggers.*

Detailed study of the management practices and principles used in the business of producing eggs, broilers, and turkeys. Laboratory includes practice in poultry dressing plant operations, culling and selection, vaccination, caponization, and management of large flocks.

372. POULTRY BREEDING. Prerequisite: Plant Pathology 358 or Zoology 401. *The Staff.*

A consideration of the inheritance of morphological and physiological characters, including meat and egg production. Emphasis is placed on the development of criteria for selection and the development of genetically sound poultry breeding programs.

373. (VETERINARY MEDICINE) POULTRY DISEASES AND PARASITES. Prerequisites: Poultry 160 and Bacteriology 350. *The Staff.*

Common diseases and parasites of poultry, their cause, diagnosis, prevention, and treatment. Laboratory experience in routine autopsy procedures.

375. POULTRY NUTRITION. Prerequisites: Poultry 160, 358. *Mr. Fuller.*

The application of the principles of nutrition to the avian species. A study is made of the biochemical aspects of the individual nutrients and their supply in terms of feedstuffs and practical poultry diets.

377. PHYSIOLOGY OF HATCHABILITY. Prerequisite: Zoology 226 or equivalent. *Mr. Huston.*

A lecture and problem course in incubation, considering the heredity, nutritional, and environmental factors affecting the development and hatching of chicks. Principles of hatchery management and sanitation.

378. ANATOMY OF THE DOMESTIC FOWL. Prerequisite: Zoology 226 or equivalent. *Mr. Huston.*

A lecture and laboratory study of the gross and microscopic anatomy of the bird with special reference to domestic fowls.

379. POULTRY SEMINAR. 1 hour. Prerequisite: Poultry 160. *The Staff.*

Open to all students in related fields. Attendance without registering for credit is permitted. Topical discussion of current problems and papers of scientific work in poultry to be presented by the students, advance students, faculty members, and guest speakers.

386. (Food Technology) Poultry Market Products Technology. Prerequisites: Poultry 160 or Food Technology 300 or equivalent. *Mr. May.*

Methods of processing shell, fluid and dried eggs, live and dressed poultry, and packaging and marketing of poultry products.

393. Feed Manufacturing. 3 hours. Prerequisites: Poultry 375 or Animal Husbandry 373 or Dairy 392. *Mr. Fuller* and *Mr. White.*

Feed ingredients, feed formulation, feed mill machinery and layout, flow of materials and quality control. Will materially aid students who are preparing for a career in the feed industry.

401. Avian Physiology. Prerequisites: Chemistry 260, Zoology 390. *Mr. Huston.*

A study of the physiology of circulation, respiration, digestion, metabolism, and the nervous system of the fowl with emphasis on the glands of internal secretion. For advanced undergraduates, graduates, and students in veterinary medicine.

403. Studies in Poultry Nutrition. Prerequisites: Poultry 375. *Mr. Fuller.*

A study of the scientific literature in the field of poultry nutrition designed to bring the advanced student abreast of the problems of current interest in this field, with special emphasis on research methods.

404. Poultry Pathology. Prerequisites: Bacteriology 350 and Poultry 373. *The Staff.*

An intensive course in poultry disease diagnosis. Various diseases will be studied, using cases sent in from the field as materials, and development of skill in the use of laboratory diagnostic techniques will be emphasized.

405. Advanced Poultry Breeding. Prerequisites: Plant Pathology 358 or Zoology 401 and Poultry 372. *Mr. Huston.*

The development of practical poultry breeding programs with a sound genetical background. A study is made of the mode of inheritance and relative heritability of various characteristics of economic importance and criteria for effective selection toward their improvement.

GRADUATE COURSES

802. Problems in Poultry Quality Control. Prerequisites: Poultry 371 and 372. *The Staff.*

A course designed to permit the student to make an intensive study of some problem in the field of egg and poultry quality control.

803. Experimental Methods in Poultry Nutrition. Prerequisites: Chemistry 451, Poultry 358 or 375. One lecture and four laboratory periods. *Mr. Fuller* and *Mr. Edwards.*

The theory and practice of laboratory procedures employed in nutrition research to include balance studies; microbiological, animal and chemical assays; hematological techniques; calorimetry; and radioisotope techniques.

805. Problems in Poultry Genetics. Prerequisites: Agronomy 423, Plant Pathology 358 or Zoology 370, Poultry 405. *Mr. Huston.*

Application of genetic theory and principles to poultry breeding. Genetics of sterility, disease resistance, and application of population methods.

806. Physiology of Avian Reproduction. Prerequisites: Poultry 372 and Zoology 390. *Mr. Huston.*

A consideration of the fundamental biological aspects of avian reproduction. Knowledge of the fundamentals and mastery of techniques will be utilized in the working of problems in reproduction in the domestic fowl.

900. (Zoology) Problems in Zoology. *Mr. Reid.*

930. Research and Thesis. 5 to 20 hours. Prerequisites: two or more graduate courses in poultry. *The Staff.*

AGRICULTURAL ENGINEERING

(Barrow Hall, South Campus)

Division Chairman and Head: Driftmier. Staff: Barnett, A. H. Bennett, J. Bennett, R. H. Brown, R. W. Brown, Carreker, Carter, Childs, Cobb, Danner, Drury, Gantt, Grubbs, Harris, Haynes, Henderson, Hendrix, Henry, Hudson, McLeroy, Rice, Rodgers, Rogers, Simons, L. L. Smith, R. E. Smith, Turkett, Turner, Walters, White.

Agricultural Engineering is the engineering profession which serves agriculture. Working in cooperation with three basic groups—industry, agriculture, and public service—it renders this service in five major fields —agricultural machines and power; agricultural industries and services; rural housing, farm structures, and utilities; rural electrification; and soil and water conservation, including drainage, irrigation and land development.

The courses comprising the four-year professional curriculum—Bachelor of Science in Agricultural Engineering—provide well balanced training in the fundamentals of science, engineering, agriculture, the technical fields of agricultural engineering and in the humanistic and social sciences. The department also offers graduate study leading to the degree Master of Science. This graduate program, in addition to advanced courses in science and engineering, places special emphasis upon the methods and practices of research—both basic and applied.

The opportunity to apply engineering principles to agriculture is unlimited. Occupations open to graduates include teaching, research, and extension work with colleges and federal agencies; engineering work in soil conservation; advertising, sales, production, design, and service work with industry; engineering management and development in rural electrification and the mechanical processing of farm products; state and federal public health engineering; appraisal and consultation; and ownership and management of private enterprises.

CURRICULUM IN AGRICULTURAL ENGINEERING

Freshman

Fall	Hours	Winter	Hours	Spring	Hours
Engr. Drawing, A.En. 104	2	Engr. Drawing, A.En. 105	2	Desc. Geom., A.En. 108	2
Chemistry, Chm. 121	5	Chemistry, Chm. 122	5	Physics, Psc. 120	5
Composition, Eng. 101	5	Composition, Eng. 102	5	Pub. Speaking, Spc. 150	5
Algebra, Math. 100	5	Trigonometry, Mat. 101	5	Anal. Geom., Mat. 210	5
Mil. Sc. 1 or Air Sc. 5	2	Mil. Sci. 1 or Air Sc. 5	2	Mil Sc. 1 or Air Sc. 5	2
Physical Educ., P.Ed. 1	0	Physical Educ., P.Ed. 1	0	Physical Educ., P.Ed. 1	0
Seminar, A.En. 190	1				
	20		19		19

Sophomore

Fall	Winter	Spring
Surveying, A.En. 211 4	Soils, Agy. 210 5	Fld. Crp. Prod., Agy. 101 3
Calculus, Mat. 254 5	Calculus, Math. 255 5	Dif. Equations, Math. 401 5
Physics, Pcs. 227 5	Physics, Psc. 228 5	Physics, Psc. 229 5
Pol. Science, P.Sc. 101 5	Rural Econ., A.Ec. 110 3	Econ. of Agrl., A.Ec. 310 5
Mil Sc. 2 or Air Sc. 6 2	Mil. Sc. 2 or Air Sc. 6 2	Mil. Sc. 2 or Air Sc. 6 2
Physical Educ., P.Ed. 2 0	Physical Educ., P.Ed. 2 0	Physical Educ., P.Ed. 2 0
21	20	20

Junior

Fall		Winter		Spring	
Statics, A.En. 350	4	Dynamics, A.En. 351	4	Strength of Mat., A.En. 355	4
Thermodynamics, A.En. 373	4	Ind. Heat Trans., A.En. 374	4	Engr. Process, A.En. 375	4
Soil Physics, Agy. 460	5	Fluid Mech., A.En. 356	4	Mat. of Const., A.En. 353	4
Amer. History, His. 100	5	Western Civil., His. 111	5	Western Civil., His. 112	5
	18		17		17

Senior

Fall		Winter		Spring	
D.C. Cir. & Mach., A.En. 384	3	A.C. Cir. & Mach., A.En. 386	4	Electronics, A.En. 387	3
Agr'l. Mach., A.En. 361	4	Agr'l. Power, A.En. 362	4	Mach. Design, A.En. 363	4
Soil and Wat. Engr., A.En. 325	4	Des. of Hyd. Str., A.En. 329	4	Rural Elec., A.En. 388	4
Spec. & Cont., A.En. 393	3	Farm Str. Des., A.En. 371	4	Rein. Conc., A.En. 376	4
San. & Water Sply., A.En. 372	2			Engr. Shop, A.En. 202	3
Seminar, A.En. 392	1				
	17		16		18

Total degree requirements are 210 hours exclusive of the required courses in Military Science 1-2 or Air Science 5-6 and Physical Education 1-2. Junior and Senior students electing Advanced ROTC courses will add 18 hours to the degree requirements.

Admission requirements include three units of mathematics consisting of algebra and trigonometry, 2 units, and plane geometry, 1 unit.

AGRICULTURAL ENGINEERING

COURSES FOR B.S.A.E. STUDENTS

104-105. Engineering Drawing. 4 hours (2 hours a quarter). Two 3-hour laboratory periods only each quarter. *Mr. Hudson* and *Mr. McLeroy.*

Use of drawing instruments, lettering, detailing, orthographic and pictorial methods of presentation.

108. Descriptive Geometry. 2 hours. Two 3-hour laboratory periods only. Prerequisite: Agricultural Engineering 105. *Mr. Smith.*

Representation of geometrical magnitudes by means of points, lines, planes and solids, and their application in the solution of problems.

190. Freshman Seminar. 1 hour. *Mr. Driftmier* and *Staff.*

Agricultural Engineering Survey and Orientation.

202. Engineering Shop. 3 hours. Two-3-hour laboratory periods. Prerequisite: Agricultural Engineering 108. *Mr. Harris.*

Machine tool work, cold metal work, carpentry, and oxy-acetylene and arc welding.

211. Surveying. 4 hours. Three 2-hour laboratory periods. Prerequisites: Mathematics 101 and Agricultural Engineering 105. *Mr. McLeroy.*

Surveying methods, instruments and computations related to field problems in taping, leveling, directions, curves, and land surveying.

325. Soil and Water Engineering. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 356. *Mr. Cobb.*

Engineering aspects of soil erosion and its control; principles, methods and design of drainage and irrigation systems.

329. Design of Hydraulic Structures. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 325 and 356. *Mr. Cobb.*

Design of drainage and irrigation systems, flood water retarding structures, and stream channels.

350. STATICS OF ENGINEERING. 4 hours. Prerequisites: Mathematics 255 and Physics 127. *Mr. Hudson.*

Force systems, resultants, equilibrium, friction, centroids, and moments of inertia.

351. DYNAMICS OF ENGINEERING. 4 hours. Prerequisite: Agricultural Engineering 350. *Mr. Brown.*

A study of bodies in motion; unbalanced force systems resulting in translation, rotation, and plane motion; moments of inertia; work and energy; and free vibrations.

353. MATERIALS OF CONSTRUCTION. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 350. *Mr. Hudson.*

Manufacture, properties, use, and application of materials for engineering construction.

355. STRENGTH OF MATERIALS. 4 hours. Prerequisite: Agricultural Engineering 351. *Mr. Hudson.*

Elements of stress analysis, resistance, and design as applied to engineering materials and structures.

356. FLUID MECHANICS. 4 hours. Prerequisite: Mathematics 255. *Mr. Cobb.*

Elements of engineering applications of the laws of fluid behavior; statics, kinematics, and kinetics of fluids.

361. AGRICULTURAL MACHINERY. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 351. *Mr. Rice.*

Agricultural production machinery design, features, costs, performance, maintenance, and field testing.

362. AGRICULTURAL POWER. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 373. *Mr. Rice.*

Thermodynamic principles, design, operation, rating, testing, and application of power units for agricultural uses.

363. MACHINE DESIGN. 4 hours. Two 3-hour laboratory periods. Prerequisite: Agricultural Engineering 355. *Mr. Rice.*

Application of principles of mechanics, physical properties of materials, and shop processes to the design of machine parts.

371. FARM STRUCTURES DESIGN. 4 hours. Two 3-hour laboratory periods. Prerequisites: Agricultural Engineering 353 and 355. *Mr. Hudson.*

Environmental, space, and structural design of farm structures; cost estimates and specifications.

372. SANITATION AND WATER SUPPLY. 2 hours. Prerequisite: Agricultural Engineering 356. *Mr. Hudson.*

Development, storage, distribution, and purification of rural water supplies; and the collection and disposal of farm and rural wastes.

373. THERMODYNAMICS. 4 hours. Prerequisite: Mathematics 254 and Physics 128. *Mr. Rodgers.*

The properties and fundamental equations of gases and vapors. Thermodynamics of heat cycles, compressors, and engines.

374. INDUSTRIAL HEAT TRANSFER. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 373. *Mr. Rodgers.*

Theory of heat transmission by conduction, radiation and convection, and the solution of engineering problems relating thereto.

375. ENGINEERING PROCESSES, DESIGN, AND ANALYSIS. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 374. *Mr. Rodgers.*

Engineering principles and design of dehydration, drying, refrigeration, reducing, blending, and processing systems for agricultural crops and products.

376. REINFORCED CONCRETE CONSTRUCTION. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 355 and 371. *Mr. Hudson.*

Mechanics of reinforced concrete. Design of floor systems, beams, columns, footings, and retaining walls.

384. DIRECT CURRENT CIRCUITS AND MACHINES. 4 hours. One 3-hour laboratory period. Prerequisites: Mathematics 255 and Physics 229. *Mr. Brown.*

Fundamentals of electric and magnetic circuits, networks and network theorems, and the theory and application of DC generators and motors.

386. ALTERNATING CURRENT CIRCUITS AND MACHINES. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 384. *Mr. Brown.*

Single phase and polyphase alternating current circuit theory and a detailed study of the operating characteristics of transformers, alternators, polyphase motors and single phase motors.

387. ENGINEERING ELECTRONICS. 3 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 386. *Mr. Brown.*

A study of electronic devices, including transistors, with particular emphasis on the design of circuits for small signal amplifiers, relays, electronic timers, photoelectric devices, and gas-filled tubes.

388. RURAL ELECTRIFICATION. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 386. *Mr. Brown.*

A study of the factors influencing the design and selection of electric equipment, circuits, and devices which can be advantageously used in agricultural enterprises for light, heat, power, control, radiation and measurement.

392. SENIOR SEMINAR. 1 hour. *Mr. Driftmier* and *Staff.*

Professional duties, procedures, and ethics of the engineer.

393. ENGINEERING SPECIFICATIONS AND CONTRACTS. 3 hours. Prerequisite: Senior standing. *Mr. Hudson.*

Basic principles of contracts and contractural relations; preparation of specifications and other material which form an essential part of the contract documents.

COURSES FOR NON-ENGINEERING STUDENTS

106. TOPOGRAPHICAL DRAWING. 3 hours. Two 3-hour laboratory periods only. *Mr. McLeroy.*

Use of drawing instruments, lettering, sketching, symbols, charts, contours, topographic maps.

111. SURVEYING. Three 2-hour laboratory periods. Prerequisites: Mathematics 101 and Agricultural Engineering 106. *Mr. McLeroy.*

Surveying methods, instruments, and computations related to field problems in taping, leveling, directions, curves, and land surveying.

203. FARM SHOP. 6 hours. Four 3-hour laboratory periods only. *Mr. Harris.*

Farm construction methods, working drawings, selection and use of tools and equipment, tool conditioning, materials, carpentry, concrete, painting and glazing, cold metal work, and oxy-acetylene and arc welding.

207. ADVANCED FARM SHOP. 3 hours. Prerequisite: Agricultural Engineering 203. *Mr. Harris.*

Special farm construction methods — soldering and sheet metal work, pipe fitting, farm fences, home and farm shop, power-operated shop equipment, advanced carpentry.

209. ELEMENTS OF HEATING AND REFRIGERATION. *Mr. Hudson* and *Mr. Rodgers.*

Basic principles of heating and refrigeration; characteristics and selection of systems; insulation; controls; load calculations.

220. DRAINAGE, IRRIGATION, AND EROSION CONTROL. 3 hours. One 3-hour laboratory period. *Mr. Cobb.*

Principles and methods of drainage, irrigation, and erosion control systems.

228. SOIL AND WATER TECHNOLOGY. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 220. *Mr. Cobb.*

Planning and design of water disposal, drainage, and irrigation systems and the study of research results as applied to conservation farming.

230. FOOD PLANT ENGINEERING. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 209. *Mr. Rodgers.*

Food plant design and equipment layout; elements of fluid mechanics; transport of solids, liquids, slurries, and semi-solids; mixing, separation, filtration, extrusion, and reduction; homogenizing, pasteurizing and evaporation.

260. FARM POWER MACHINERY. 3 hours. One 3-hour laboratory period. *Mr. Rice.*

The operation, care, repair, and selection of farm machinery and tractors for use on farms.

265. Farm Buildings and Equipment. 3 hours. *Mr. Harris* and *Mr. McLeroy.*

A study of farm buildings, equipment, and facilities with emphasis on space, material, sanitary, managerial, and cost requirements.

280. Farm Electrification. 3 hours. One 3-hour laboratory period. Prerequisite: Physics 120. *Mr. Brown* and *Mr. Smith.*

Applications of electricity to agriculture; wiring systems for farm buildings; selecting, using, and controlling electrically operated equipment in farming operations.

GRADUATE COURSES

701. Agricultural Engineering Applications. Prerequisite: Agricultural Engineering 203, and Education 336, or Agricultural Economics 301, or equivalent. (For Agricultural students only). *Mr. Harris.*

The application of engineering techniques to agricultural production and utilization practices, with emphasis on the organization, management, and physical facilities for farm mechanics work on farms, in secondary schools, and in related farm occupations.

702. Advanced Engineering Applications. Prerequisite: Agricultural Engineering 701. (For Agricultural students only). *Mr. Harris.*

A continuation of the farm mechanics improvement plans and procedures developed in Agricultural Engineering 701 with emphasis on economic limitations and extension of engineering techniques and practices.

804. Special Electrical Problems. Prerequisite: Agricultural Engineering 289 or equivalent. *Mr. Brown.*

Problems dealing with electrical circuits, apparatus, and systems associated with electricity in agriculture.

805. Agricultural Structures Design. Prerequisite: Agricultural Engineering 271 and 274 or equivalent. *Mr. Hudson.*

Insulation, ventilation, heat and vapor relationships; structural theory and design.

806. Advanced Farm Power and Equipment. Prerequisite: Agricultural Engineering 261, 262, and 273, or equivalent. *Mr. Rice.*

Special problems dealing with design, development, and performance testing of agricultural tractors and machines.

807. Soil and Water Conservation. Prerequisite: Agricultural Engineering 225 and 256, or equivalent. *Mr. Cobb.*

Advanced studies of water control and utilization through drainage, irrigation, and conservation engineering.

809. Industrial Electronics. Prerequisites: Mathematics 255, Physics 229, Agricultural Engineering 284, 286. *Mr. Brown.*

Electronic circuits, tubes and transistors with special emphasis on the design of circuits for use with transducers of light, moisture, heat, sound, and mechanical motion. Electronic instruments and control systems are studied with a view toward development of original thinking on methods of control and instrumentation.

810. Advanced Stress Analysis. Prerequisites: Mathematics 255, Agricultural Engineering 253, 255. *Mr. Rice.*

The use of electrical resistance strain gauges, brittle lacquers, photo-elastic methods, and electronic equipment for stress analysis determinations not adaptable to mathematical solutions.

811. Process Engineering. Prerequisite: Agricultural Engineering 273 and 275 or equivalent. *Mr. White* and *Mr. Rodgers.*

A study of the engineering aspects of agricultural processing with emphasis on plant layout, equipment, process control, and materials handling.

813. Research Methods and Instrumentation. Prerequisite: Graduate status. *Mr. Brown.*

Research problems, design and execution of experiments, and the principles and application of scientific apparatus and equipment used in research.

930. Thesis. 5 to 50 hours.

DEPARTMENT OF LANDSCAPE ARCHITECTURE

(Landscape Architecture Building, North Campus)

Division Chairman and Head: Owens. Staff: Bochkor, Burggraf, Dobereiner, Smith.

Landscape Architecture has been defined in its simplest terms as the art of adapting land to human use and enjoyment. It is, however, at once both a science as well as an art and also a service profession.

The practicing Landscape Architect must have a thorough knowledge of the materials of his profession which are earth, water, construction materials and plants. His tools are artistic techniques used in transmitting ideas, fundamental engineering processes, basic horticultural skills, and an understanding of and sympathy with the dynamics of the natural environment. But in the end, the product of his work must be an artictic creation, aesthetically as well as functionally satisfying in order to be worthy of the name.

In this time of expanding scale of land planning operations, when city and regional planning and redevelopment are becoming ever more important in everyday life, the Landscape Architect finds that he must fit into a team, and, in order to do this, he must have some understanding of and sympathy with members of other professions such as architects, artists, engineers, planners, sociologists, economists, and public administrators. He should be, in other words, both thoroughly competent in his own professional field, and also able to take his place as a well-rounded member of a community.

The studies offered in Landscape Architecture at the University of Georgia are built around a curriculum designed to train young men and women for professional practice. This program is accredited by the American Society of Landscape Architecture in four years plus one quarter. The Department offers two other curricula, one in Recreation Planning in cooperation with the School of Forestry, and another specializing in the smaller problems of Garden Design in cooperation with the Department of Art (Interior Design).

A series of formal and naturalistic developments, known as the Founders Memorial Garden, is adjacent to the Landscape Architecture Building. This affords excellent laboratory facilities for the students.

TRIPS

Two field trips are required to be taken on alternate years by junior and senior Landscape Architecture majors to Flat Rock and Asheville, N. C., Smoky Mountains National Park, Thomasville, Georgia, and points in Florida for purposes of study and observation. Two week-end trips will be made to Augusta, Atlanta, and LaGrange, Georgia, and to Aiken and Charleston, South Carolina. Each trip is made at the expense of the student.

PROGRAMS OF INSTRUCTION

1. General Program in Landscape Architecture. This program, leading to the degree of Bachelor of Landscape Architecture, is intended to fit students for the professional practice of Landscape Architecture.

2. Program in Recreational Planning. This is a program leading to the degree of Bachelor of Science in Landscape Architecture devoted particularly to the design and management of large recreational areas and forest preserves. Following the close of the junior year a summer camp covering a period of ten weeks is required as a prerequisite for graduation.

3. Program in Landscape Operation. This program for the degree of Bachelor of Science in Landscape Architecture is set up to give intensive study of the problems of design, management, and maintenance of flower gardens, home grounds, and estates.

THE FOLLOWING CORE CURRICULUM IS REQUIRED OF ALL STUDENTS MAJORING IN LANDSCAPE ARCHITECTURE

Freshman and Sophomore Years

	Hours		Hours
Art 120	5	English 101-102	10
Land. Arch. 155-156	10	Physical Science 101	5
Land. Arch. 172	5	Horticulture 101	3
Botany 121-122	10	Art Elective	5
Math. 101	5	Land. Arch. 113-114	10
Agricultural Eng. 111	5	Land. Arch. 101	5
Land. Arch. 112	5	Land. Arch. 350-351	10
Military Science 1 or Air Science 5 (for men)	6	Military Science 2 or Air Science 6 (for men)	6
or		or	
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
	55-56		53-54

Summer Term		Practical Experience	
History 111-112	10	1 Summer	1
Political Science 101	5		
		Field Trips	
		4 at ½ hour each	2

BACHELOR OF LANDSCAPE ARCHITECTURE

I. GENERAL PROGRAM

Junior and Senior Years

	Hours		Hours
Land. Arch. 315-316-317	15	Land. Arch. 318-319-355	15
Land. Arch. 102	5	Land. Arch. 303	5
English 121	5	Art Elective	5
Chem. 121 or Geol. 104	5	Land. Arch. 353	5
Land. Arch. 340	3	Land. Arch. 354	5
Land. Arch. 352	5	Land. Arch. 358	5
Land. Arch. 357	5	Land. Arch. 360	5
	43		45

BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

2. RECREATION PLANNING

JUNIOR AND SENIOR YEARS

	Hours		Hours
Land. Arch. 315-16-17	15	Land. Arch. 318-19-355	15
Land. Arch. 350-57-58	15	Soc. 360-420	10
Geog. 341 or Geog. 358	5	Land. Arch. 353	5
Geog. 420	5	Land. Arch. 360	5
Art 241	5	Econ. 441-443	10
	45		45

3. LANDSCAPE OPERATION

JUNIOR AND SENIOR YEARS

	Hours		Hours
Land. Arch. 315-316	10	Land. Arch. 321	3
English 121	5	Land. Arch. 354-364	10
Chem. 121 or Geol. 104	5	Land. Arch. 355	5
Land. Arch. 102	5	Art 389 or Plant Path. 353	5
Land. Arch. 357	5	Art 390 or Ent. 374	5
Art 241	5	*Electives	10
*Electives	8	Land. Arch. 352	5
	43		43

LANDSCAPE ARCHITECTURE

101. FUNDAMENTALS OF ARCHITECTURE. Five laboratory periods. *Mr. Dobereiner.*

Lectures on organization of the living functions and their expression in plan and elevation together with studies in orientation and site planning. Exercises in dimensional design.

102. INTRODUCTORY ARCHITECTURAL DESIGN. Five laboratory periods. *Mr. Dobereiner.*

Study of small buildings commonly dealt with in landscape design and their appropriate expression. Elementary problems in siting.

112. INTRODUCTORY LANDSCAPE DESIGN. Five Laboratory periods. *Mr. Bochkor.*

Application of theories of design to small properties. Introduction to rendering.

113. INTRODUCTORY LANDSCAPE DESIGN. Five laboratory periods. *Mr. Bochkor.*

A continuation of the study of small properties introducing elements of grading and drainage as they influence design.

114. INTRODUCTORY LANDSCAPE DESIGN. Five laboratory periods. *Mr. Bochkor.*

Continuing the study of small properties with an analysis of the design relationship of indoor and outdoor aspects of contemporary living.

155. ARCHITECTURAL DRAFTING. Five laboratory periods. *Mr. Dobereiner.*

A condensed course in principles of orthographic projection, isometric and perspective. Emphasis is placed on use of instruments, lettering and problems in design.

156. ARCHITECTURAL PROJECTIONS. Five laboratory periods. Prerequisite: Landscape Architecture 155. *Mr. Dobereiner.*

Shades and shadows and presentation drawings in isometric projection and perspective.

*Suggested electives: Business Administration 110, Horticulture 353, 362 and 407. Substitutions subject to approval by Department Head.

172. History of Landscape Design. Five lecture periods. *Mr. Owens.*

Deals with the gradual development of the art of landscape design from the earliest efforts to the present day, laying special stress upon the transition of styles and the development of the naturalistic type.

303. Architectural Design. Five laboratory periods. *Mr. Dobereiner.*

Continuation of design problems with analysis of larger architectural elements, especially organization of public buildings in relation to landscape factors of site and orientation.

313. Landscape Design. Five laboratory periods. Especially designed for students not majoring in landscape architecture. *The Staff.*

Problems in design involving the designing and rendering of plans for gardens, residential properties, grounds of public buildings and parks.

315. Intermediate Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 112. *Mr. Bochkor.*

Application of design theory to residential properties. Original problems in design, rendering, and model making.

316. Intermediate Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 315. *Mr. Burggraf.*

Solution of original problems in public and semi-public properties and recreational facilities.

317. Intermediate Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 316. *Mr. Bochkor.*

Solution of original problems in public and semi-public properties such as cemeteries, school grounds, subdivisions, and golf courses.

318. Advanced Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 317. *Mr. Burggraf.*

A continuation of intermediate landscape design involving complex problems.

319. Advanced Landscape Design. Five laboratory periods. *Mr. Bochkor.*

A continuation of Landscape Architecture 318 with original design problems in large landscape developments.

321. (Horticulture) The Maintenance of Ornamental Plantings and Landscape Management. 3 hours.

340. Professional Practice in Landscape Architecture. 3 hours. Three lectures. *Mr. Burggraf.*

Professional practice and ethics; contracts, reports and specifications.

350. Elementary Landscape Construction. Prerequisites: Agricultural Engineering 111, Mathematics 101 or equivalent. *Mr. Burggraf.*

Materials of landscape construction, their characteristics and uses; elementary grading, drainage and simple construction details.

351. Plant Materials. *Mr. Burggraf.*

A study of plant materials used in landscape architecture, dealing with trees, shrubs and vines.

352. Plant Materials. Three laboratory periods. *Mr. Owens.*

A study of plant materials used in landscape architecture, dealing with flowers, perennials, and grasses.

353. City Planning. Three laboratory periods and two lectures. *Mr. Dobereiner.*

Background course in city planning, covering the history and bibliography of the subject, and introducing the student to modern trends in planning. Designed as a foundation for further study of professional planning, the course is also an elective intended to provide the layman with an informed understanding of civic problems.

354. Planting Design. Five lecture or laboratory periods. Prerequisites: Landscape Architecture 317, 351, and 353. *Mr. Owens.*

Deals with problems which aim to train the student to produce with plants and other landscape materials practical and esthetically effective results.

355. Landscape Thesis. Five lectures or laboratory periods. *Mr. Owens* and *Staff.*

A problem in designing a property will be assigned; completed plans including general plan, staking and grading plans, construction and planting plans. Specifications and estimates will be required. This course will serve as a comprehensive examination.

357. LANDSCAPE ENGINEERING. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 350. *Mr. Burggraf.*

Design and construction of pavements, structures, drainage and utilities, calculation of quantities.

358. ADVANCED LANDSCAPE CONSTRUCTION. *Mr. Burggraf.*

Advanced earthwork, road and highway engineering, preparing master plans and details, estimating and preparing contracts and specifications for landscape construction.

360. HISTORY OF ARCHITECTURE. *Mr. Dobereiner.*

Principal periods of architectural history. Acquaints departmental majors with architectural developments which influenced landscape design, but is also open to other students and laymen interested in the backgrounds of the various "styles" in buildings and furnishings.

364. PLANTING DESIGN. One lecture and four laboratory periods. Prerequisite: Landscape Architecture 354. *Mr. Owens.*

A continuation of Landscape Architecture 354. Emphasis is placed on the design and planting of perennial gardens.

370. HISTORY AND APPRECIATION OF LANDSCAPE ARCHITECTURE. Five lectures. Especially designed as an elective for students not majoring in landscape architecture. *Mr. Owens.*

Elements of landscape architecture. The history of gardening, with particular attention devoted to its development in the South, and the application of landscape design to outdoor areas, including the small home, park, cemetery, farmstead, estate.

GRADUATE COURSES

701, 702, 703, 704. SPECIAL PROBLEMS IN LANDSCAPE ARCHITECTURE. 5 to 20 hours. Prerequisite: a minimum of 10 quarter hours of senior division work in design, and consent of instructor. *Mr. Owens.*

Intensive studies in special aspects of Landscape Architecture designed to explore applications in such fields as park and recreation developments, planting design, theory and history, landscape construction, rural and urban land use studies and development. The courses will consist primarily of readings and seminar discussions with projects in drawing and model building. The assigned projects will be adjusted to the needs and interests of the individual student.

THE GEORGE FOSTER PEABODY SCHOOL OF FORESTRY

ALLYN MARSH HERRICK, B.S., M.F., Ph.D., *Dean*

HISTORY

The School of Forestry was first established early in 1906 through the interest and generosity of Mr. George Foster Peabody who endowed it for a three-year period. It is the oldest forestry school in the South and one of the oldest in the country. In 1908, the School became a Division of the College of Agriculture and remained so for about twenty-seven years. In June 1935, by action of the Board of Regents of the University System, the George Foster Peabody School of Forestry was reestablished.

The many graduates of the School have played a very important part in the development of the forestry program in the South, serving in all phases of forestry work.

The School is ideally situated for its important role as a regional school. Its location in the State makes it not only easily accessible to residents of Georgia but to those of neighboring states. It is also well located as to accessibility to the three major forest regions of the Southeastern United States: Mountain; Piedmont; and Coastal Plain.

BUILDING, EQUIPMENT, AND FOREST PROPERTIES

The School is housed in its own modern building. The three-storied main building contains classrooms, general and research laboratories, a library containing 15,000 volumes and a reading room with the latest forestry periodicals available, a large auditorium, and offices.

Two large wings are attached to the main building, one containing additional staff offices, a photographic darkroom, and wildlife, radioisotope, genetics, soils and timber-testing laboratories. The other wing contains a complete sawmill, edger, trimmer, planer, and well-equipped wood-working shop. A modern dry kiln is located adjacent to the utilization wing. Three greenhouses for research and instruction are likewise available.

Ample surveying, mapping, cruising, silvicultural, forest protection and other equipment is owned by the School. Calculating machines, and photo-interpretation devices are used regularly in the instructional program, and the Statistical Institute provides additional facilities in the way of high-speed electronic computers. Specialized research equipment is available for student and faculty use.

The forest properties owned by the University are managed by the School of Forestry. Two of these are located on land adjacent to the Campus. The Oconee Forest, a typical Piedmont forest area of 120 acres, is used for laboratory work in silviculture, mensuration, and utilization. The Denmark Forest of 145 acres, adjoining the Oconee Forest, is used for experimental work in forest plantings. Whitehall Forest, located approximately five miles from the campus and comprising some 750 acres, was deeded to the University by the Resettlement Administration. A series of

planting demonstrations has been established on this forest. The U. S. Forest Service has erected an experimental charcoal kiln on this property, established a series of experimental plantings and has started a fence-post testing ground for posts treated by various methods.

The Watson Springs Forest is located in Greene County and was given to the University by Colonel J. D. Watson. It is about 25 miles from Athens and contains some 600 acres. Experimental plantings in hardwoods and outplantings for genetics studies have been started. The Hardman Memorial Forest of 500 acres is located 12 miles north of Athens, in Jackson County and was deeded to the University as a memorial to the late Governor Hardman. Problems in planting and in study of species not commonly planted are being carried out on this Forest. The area is also used as a field laboratory for Seniors.

A forest-tree nursery, the oldest publicly-owned nursery in Georgia and probably the oldest in the South, is located in Oconee Forest. It is used primarily for instruction and research in forest-tree improvement by both the School and the U. S. Forest Service. A well-equipped field house and storage buildings are located at the nursery.

One segment of the Southeastern Forest Experiment Station, U. S. Forest Service—the Athens Branch of the Macon Research Center—is headquartered in the Forestry Building. The resident staff in Athens numbers seven specialists in various phases of forestry research. These men hold faculty status. The Georgia Forest Research Council, which is headquartered in Macon, supports several research workers on four projects at the School of Forestry. Cooperation among the School, the Research Council, the Georgia Forestry Commission and the U. S. Forest Service is exemplary.

OPPORTUNITIES FOR CONCENTRATION

The Forestry curriculum represents a minimum core of general and professional course work required of all undergraduate students. Beyond this core there exists ample opportunity for concentration in any phase of forest resource management: timber, wildlife, range, water, or recreation. Through careful choice of elective courses a student of forestry may thus concentrate on a certain phase of land management.

Likewise, students are able to obtain a major in Business Administration, Journalism, or some departments of the College of Arts and Sciences in addition to the major in forestry, with very little extra time at the University.

FIELD WORK IN FORESTRY

Field work is a very important phase of a well-rounded forestry education. In addition to field laboratories in connection with the various courses taught at the University, several field trips to other sections of the State are required. Also as a part of the regular program of work, a required camp is held during the summer quarter following the sophomore year.

DEGREES OFFERED BY SCHOOL OF FORESTRY

The School of Forestry offers the degree of Bachelor of Science in Forestry. Through the Graduate School the degrees of Master of Science and Master of Forestry are offered. The Doctor of Philosophy degree in the plant sciences is also available to forestry graduates.

Students planning to major in Forestry should enter at the beginning of the freshman year if possible. Those who plan to transfer into the School of Forestry should note carefully the subjects which are prerequisite to the required Summer Camp and also those subjects for which the camp work is a prerequisite. Most students will find it necessary to transfer to the School no later than the beginning of the fifth quarter so as to meet camp requirements during the first summer in residence at the University.

SPECIAL SCHOLARSHIP REQUIREMENTS

High school students who plan on majoring in forestry in the University will do well to stress English, mathematics, and the sciences in the high school program. In addition to the general University requirements relative to scholarship, the following requirements must be met by all Forestry students:

1. Any student already enrolled in or endeavoring to transfer into the School of Forestry who fails to earn a minimum passing score on the Mathematics Test of the Sophomore Comprehensive Examination will not be permitted to register for additional professional forestry courses until he has satisfactorily completed further formal course work in the Department of Mathematics.

2. At least a grade of C must be earned by students in all *required forestry courses* and approved substitutes, before credit for the courses will be given toward graduation.

FEES AND EXPENSES

A special fee of $10 is required for Forestry Summer Camp and a deposit of $85 to cover the probable cost of board and lodging must be made prior to the opening of Camp. Any unused portion of the $85 remaining at the close of Camp is refunded to the student.

Field trips form a part of certain courses in the junior and senior years and the expenses of these trips, usually about $20 per year, must be borne by the student. The amount necessary for books and supplies will vary from $25 to $60 per year.

ORGANIZATIONS

Xi Sigma Pi, the national honorary forestry fraternity, has an active chapter in the School of Forestry. The purpose of this fraternity is to honor those students who do outstanding scholastic work, to promote fraternal relations among earnest workers, and to work for the upbuilding of the profession of forestry.

Alpha Zeta, a national honorary fraternity in agriculture and allied fields, is open to students in the School of Forestry.

The Forestry Club, open to all students in the School, sponsors biweekly programs of special interest to the student body. The club also sponsors an annual field day, a banquet, a dance and the *Cypress Knee*, the Forestry School's annual publication. The Forestry Wives' Club, also known as the Lumber Jills, is an organization which encourages a fuller understanding of the forestry profession on the part of the wives of forestry students.

SCHOLARSHIPS AND LOAN FUNDS

THE EARL JENKINS MEMORIAL AWARD is given to a member of the junior class in Forestry who excels in scholarship, character, and interest in forestry ideals. This award honors the memory of Earl Jenkins, class of 1942, who was killed in action in World War II, and is given by his sister.

THE XI SIGMA PI-FORESTRY CLUB AVARD is given to the outstanding freshman.

THE DUPREE BARRETT LOAN FUND, given in memory of Dupree Barrett, for many years Extension Forester in Georgia, is open to junior or senior students in the School of Forestry.

THE MAXWELL B. THURMOND LOAN FUND, given in memory of Lt. Col. Maxwell B. Thurmond, class of 1941, is open to students in the School of Forestry.

THE ST. REGIS PAPER COMPANY awards an annual scholarship to an outstanding Junior in the School of Forestry. The scholarship, amounting to $800, is renewable for the Senior year. It is based on scholarship, leadership, and interest in the forestry profession.

GAIR WOODLANDS CORPORATION OF SAVANNAH awards an annual $1,000 scholarship to an incoming freshman, the recipient to come from the wood producing area of that company. The student finally selected is carefully screened by two different committees, selection being based on scholarship, leadership, and personality.

THE RAYONIER CORPORATION awards a scholarship of $500 to the outstanding senior in the School. The selection is made by the staff of the School and is based on scholarship, leadership, and personality.

THE HOMELITE CORPORATION of New York, manufacturers of chain saws, awards a scholarship of $500 annually, the recipient being selected by the staff of the school.

THE INLAND CONTAINER CORPORATION awards a scholarship of $800 per year for four years to children of employees of the Corporation. These scholarships are not restricted to students of Forestry.

REQUIREMENTS FOR GRADUATION

A total of 218 hours, in addition to Military or Air Science and Physical Education, is required for graduation.

Examinations on the history of the United States and Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history. Courses approved for this purpose are History 100 and 351-352.

REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY

Freshman Year

	Hours
Botany 121-122	10
Chemistry 121-122	10
English 101-102	10
Forestry 191-192-193 (Orientation)	3
Math 100-101 (Algebra and Trigonometry)	10
Political Science 101	5
Military Science 1 or Air Science 5	6
Physical Education 1	0
	54

Sophomore Year

	Hours
Ag. Engineering 111 (Surveying)	5
Agronomy 210 (Prin. of Soils)	5
Business Adm. 108 (Business Communications)	4
Business Adm. 109 (Business and Prof. Speech)	4
Forestry 201-202 (Dendrology)	6
Forestry 203 (Silvics)	5
Geography 121 (Landforms) or Zoology 226 (Vert. Zoology)*	5
Physics 127-128 or 137-138	10
Statistics 200	3
Military 2 or Air Science 6	6
Physical Education 2	0
	53

Summer Camp

	Hours
Forestry 204 (Silvicultural Practices)	5
Forestry 241 (Forest Measurements)	3
Forestry 242 (Forest Engineering)	4
Forestry 243 (Forest Practicum)	3
	15

Junior Year

	Hours
Ag. Economics 310 (Applied Economics of Ag.)	5
Forestry 301 (Applied Silviculture)	5
Forestry 321 (Wood Anat. and Identification)	3
Forestry 344 (Mensuration)	5
Forestry 361 (Game Management)	3
Forest Protection:	
Forestry 382 (Insects)	3
Forestry 383 (Diseases)	3
Forestry 384 (Fire)	3
Forestry 421 (Physical Properties of Wood)	2
Electives**	22
	54

Senior Year

	Hours
Forestry 302 (Regional Silviculture)	3
Forestry 322 (Forest Products)	2
Forestry 323 (Logging)	2
Forestry 324 (Lumber Mfr.) or Forestry 561 (Wildlife Mgt.)*	3
Forestry 372 (Economics of Forestry)	5
Forest Management:	
Forestry 541 (Foundations)	5
Forestry 542 (Finance)	5
Forestry 591 (Administration)	3
Geography 420 (Photogrammetry)	5
Electives**	21
	54

* Students concentrating in wildlife management take alternate course.

** Electives transferred to the University of Georgia must be approved by the Dean of the School of Forestry. Normal residence requirements are 123 hours and the last seven quarters (including Camp) immediately preceding graduation.

A minimum of 8 hours of electives will be selected from courses in *each* of three categories:

Group A. Technical Forestry electives. A maximum of 15 hours may be selected from this group.

Group B. Non-forestry technical electives. Advanced Military or Air Science courses are considered in this group.

Group C. Non-technical electives.

Forestry electives are to be found in the pages immediately following.

Lists of suggested electives in Groups B and C will be provided.

Each student will be counseled by a member of the faculty regarding electives prior to the beginning of the Junior year.

COURSES OFFERED IN SCHOOL OF FORESTRY

All classes meet in Forestry Building except as noted.

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated, all courses will meet five hours a week and carry five hours credit.

191. FIELDS OF FORESTRY. 1 hour. *Mr. Herrick.*
Orientation with respect to the several fields of the forestry profession.

192. DEVELOPMENT OF FORESTRY. 1 hour. *Mr. Patterson.*
Historical development of forestry in America.

193. FORESTRY CALCULATIONS. 1 hour. *Mr. Bamping.*
Mathematical and graphic solutions of elementary problems.

201. DENDROLOGY: HARDWOODS. 3 hours. Two 3 hour lecture-laboratory periods. Prerequisite: Ten hours of botany. *Mr. Bishop.*
Identification, classification, silvical requirements, and distribution of the more important forest trees among the Angiosperms.

202. DENDROLOGY: CONIFERS. 3 hours. Two 3 hour lecture-laboratory periods. Prerequisite: Ten hours of botany. *Mr. Bishop.*
Identification, classification, silvical requirements, and distribution of the more important forest trees among the Gymnosperms.

203. SILVICS. Prerequisites: Ten hours of botany. *Mr. Jackson.*
Fundamental principles of forest physiology and ecology; effects of the various factors of site upon the characteristics of growth and development of forest stands; forest classification.

Forestry 204, 241, 242, and 243 are offered only at the Forestry Summer Camp.

204. SILVICULTURAL PRACTICES. 5 hours. Seventeen days at Summer Camp. Prerequisites: Agronomy 210, Forestry 201, 202 and 203. *Mr. Bishop* and *Staff.*
Ecological relationships among forest plants and animals; forest types; forest fire use; timber marking and harvesting.

241. ELEMENTS OF FOREST MEASUREMENTS. 3 hours. Ten days at Summer Camp. Prerequisite: Mathematics 101. *Mr. Herrick* and *Staff.*
Field measurements of trees, major forest products, and timber stands; log scaling, timber cruising, and growth study.

242. FOREST ENGINEERING. 4 hours. Thirteen days at Summer Camp. Prerequisite: Agricultural Engineering 111, or equivalent. *Mr. Grant* and *Staff.*
Transit and level traverses; area determinations; plane table topography; elements of aerial photo interpretation.

243. FOREST PRACTICUM. 3 hours. Ten days at Summer Camp. Prerequisites: Forestry 204, 241, and 242. *Mr. Patterson* and *Staff.*

Surveying, mapping, and cruising a forest property. Preparation of stand and stock tables, growth data.

294. FARM FORESTRY. 3 hours. Two lectures and one laboratory period. *Mr. Stoehr.*

Forestry as a farm enterprise. Not open to forestry students.

JUNIOR AND SENIOR COURSES

301. APPLIED SILVICULTURE. Three lectures and two laboratory periods. Prerequisite: Forestry Summer Camp. *Mr. May.*

Cultural treatment of the forest including intermediate cuttings, use of prescribed fire and silvicides; pruning; methods of securing natural and artificial regeneration.

302. REGIONAL SILVICULTURE. 3 hours. Prerequisite: Forestry 301. *Mr. Jackson.*

Application of silvicultural methods in the forest regions of the United States.

321. WOOD ANATOMY AND IDENTIFICATION. 3 hours. Three laboratory periods. Prerequisites: Forestry 201, 202, *Mr. Hamilton.*

Anatomical features of wood and wood identification by gross and minute structure.

322. FOREST PRODUCTS. 2 hours. Prerequisite: Forestry 321. *Mr. Grant.*

Technology, manufacture and use of forest products other than lumber.

323. LOGGING. 2 hours. Prerequisite: Forestry 321. *Mr. Grant.*

Equipment, methods, and transportation; cost analyses.

324. LUMBER MANUFACTURE. 3 hours. Two lectures and one laboratory period. Prerequisite: Forestry 321. *Mr. Grant.*

Methods of manufacture, re-manufacture; grading and distribution.

325. SEASONING AND PRESERVATION. 2 hours. Prerequisite: Forestry 321. *Mr. Grant.*

Pre-drying, air seasoning and kiln drying; preservative treatment.

344. FOREST MENSURATION. Three lectures and two laboratory periods. Prerequisite: Forestry Summer Camp, Statistics 200. *Mr. Stoehr.*

Volume determination of major forest products, trees, and stands; stand density analysis; growth and yield studies; sampling methods; graphical and statistical analysis.

361. GAME MANAGEMENT. 3 hours. Prerequisite: Botany 375 or Forestry 203. *Mr. Jenkins.*

Wild game as a forest resource. The interrelations of game management with other resource use. Game management policy and administration.

362. FOREST RANGE MANAGEMENT. 3 hours. Prerequisites: Botany 122 and Forestry 203. *Mr. Jenkins.*

Principles of range management involving use of forest range as a resource; improvement of forest range; ecology of forest range plants.

372. ECONOMICS OF FORESTRY. Prerequisite: Agricultural Economics 310 or equivalent. *Mr. Parker.*

Demand for forest products and services, economics of production, utilization and distribution; forest taxation and insurance; social aspects of forestry.

382. (ENTOMOLOGY) FOREST PROTECTION: INSECTS. 3 hours. Three laboratory periods. Prerequisites: Forestry 201, 202. *Mr. Lund.*

Biology, identification, and control of the species of insects destructive to American forests.

383. (PLANT PATHOLOGY) FOREST PROTECTION: DISEASES. 3 hours. Three laboratory periods. Prerequisites: Botany 121, 122. *Mr. Thompson.*

An introduction to the diseases of forest trees; identification and control.

384. FOREST PROTECTION: FIRE. 3 hours. Prerequisite: Forestry 203. *Mr. Bishop.*

Causes, effects, and methods of controlling wildfire.

392. FOREST HISTORY AND POLICY. 2 hours. *Mr. Patterson.*

Development of forestry and forest legislation leading to the present American forest policies.

393. INFORMATIONAL METHODS IN FORESTRY. 3 hours. Prerequisite: 20 hours of Forestry courses. *Mr. Bishop.*

Procedures and techniques for use of various media essential to disseminating forestry information to the public.

JUNIOR - SENIOR OR GRADUATE COURSES

401. FOREST TREE PHYSIOLOGY. 3 hours. Two lectures and one laboratory period. Prerequisite: Botany 380. *Mr. Reines* and *Mr. Walker.*

Water, nutrient, and growth regulator absorption and translocation in forest trees; tree growth and development; use of radioisotope techniques.

402. FOREST SOILS. Three lectures and two laboratory periods. Prerequisites: Agronomy 210, Forestry 203. *Mr. May.*

Morphological, physical, and chemical properties of soils in relation to growth of forest trees; classification of soil profiles and site index; appraisal of soil conditions on forest properties.

403. FOREST TREE IMPROVEMENT. 3 hours. Two lectures and one laboratory period. Prerequisite: Forestry 301. *Mr. Reines.*

The genetic inference in forest tree improvement; breeding and progeny testing; quality seed production; vegetative propagation.

404. FOREST HYDROLOGY. 3 hours. Two lectures and one laboratory period. Prerequisite: Forestry 203 and ten hours of Physics. *Mr. Shear* or *Mr. May.*

Administration and regulation of the aggregate resources of a drainage basin; control of erosion, streamflow, and floods. Flood control surveys.

421. PHYSICAL PROPERTIES OF WOOD. 2 hours. Two laboratory periods. Prerequisite: Forestry 321. *Mr. Hamilton.*

The physical nature of wood, including moisture, heat, light, sound, and electrical relations.

422. MECHANICAL PROPERTIES OF WOOD. 3 hours. Two lectures and one laboratory period. Prerequisite: Forestry 321. *Mr. Hamilton.*

Strength and other characteristics of commercial woods as related to growth and utilization; examination of standard testing procedures.

471. ECONOMIC ANALYSIS IN FORESTRY. 3 hours. Prerequisite: Forestry 372. *Mr. Parker.*

Current economic theory as a tool in the analysis of problems in forest production, utilization, and distribution.

481. FOREST FIRE BEHAVIOR AND USE. 3 hours. Prerequisites: Forestry 384 and ten hours of physics. *Mr. Bishop* or *Mr. Shear.*

Ignition, combustion, heat transfer, the convection column, living and dead fuels, fire weather and climatology, danger ratings. Prescribed burning techniques and effects.

501. FOREST INFLUENCES. 2 hours. Prerequisites: Agronomy 210 and Forestry 203. *Mr. Jackson.*

Influence of forests on climate, soil, streamflow, erosion, water conservation, and site productivity.

503. REFORESTATION. 3 hours. Two lectures and one laboratory period. Prerequisites: Agronomy 210 and Forestry 203. *Mr. May.*

Fundamentals and practices involved in artificial regeneration. Seed production, collection, extraction, testing, and storage; nursery management; site preparation; direct seeding, and planting.

504. PRINCIPLES OF MICRO-MEASUREMENTS. 2 hours. Two laboratory periods. Prerequisites: Forestry 321. *Mr. Hamilton* or *Mr. Jackson.*

Microtechniques used in the study of wood elements, characteristics, and behavior.

526. NAVAL STORES. 3 hours. Prerequisites: Forestry 301, 321. *Mr. Bishop.*

History, economics, chemistry, and processing of naval stores; physiology of oleoresin synthesis; field practices of gum naval stores industry.

541. FOREST MANAGEMENT: FOUNDATIONS. Prerequisites: Forestry 301, 344. *Mr. Patterson.*

Principles of forest regulation, business and other objectives of management.

542. FOREST MANAGEMENT: FINANCE. Prerequisite: Forestry 541. *Mr. Bamping.*

Valuation of forest land, growing stock, and stumpage; financial alternatives; liquidation vs. sustained yield.

543. FOREST INVENTORY CONTROL. 2 hours. One lecture and one laboratory period. Prerequisites: Forestry 301, 344. *Mr. Bamping.*

Field data collection, machine processing, and analysis for continuous control.

544. SILVIMETRIC METHODS. Prequisite: Forestry 344. *Mr. Bamping.*

Application of statistical techniques, graphical mathematics, and empirical formulae to all branches of forestry.

545. FOREST MANAGEMENT PLANS. Prerequisites: Forestry 301, 344. *Mr. Patterson.*

Preparation of a management plan for a forest property, including surveying, map making, data collection. Presentation format must meet professional standards.

546. AERIAL PHOTOCRUISING AND MAPPING. 3 hours. Two laboratory periods. Prerequisites: Forestry 344, Geography 420. *Mr. Stoehr.*

Use of aerial photographs in forest mapping, inventorying, and management administration.

561. WILDLIFE MANAGEMENT TECHNIQUES. 3 hours. Two lectures and one laboratory period. Prerequisites: Forestry 361 or Zoology 353. *Mr. Jenkins.*

Field and laboratory techniques commonly required of professional wildlife workers.

562. ADVANCED PRINCIPLES OF WILDLIFE MANAGEMENT. Prerequisites: Forestry 561 or permission of instructor. *Mr. Jenkins.*

Application of the principles of animal and plant ecology to the biological basis of wildlife management and its coordination with other land uses on upland and wetlands habitats.

571. MARKETING FOREST PRODUCTS. 2 hours. Prerequisite: Forestry 372. *Mr. Parker.*

Economics of marketing forest products; analysis of cooperatives; techniques for improving marketing efficiency.

591. FOREST ADMINISTRATION. 3 hours. Prerequisite: 20 hours of Forestry courses. *Mr. Patterson.*

Problems, policies and procedures applicable to administration of personnel; human relations; supervisory techniques; professional ethics.

599. FORESTRY PROBLEMS. 3 or 5 hours. *Staff.*

Assigned or selected problems in the field of forestry. A written report is required.

GRADUATE COURSES

For all undergraduate Forestry courses in the 400 and 500 series, listed in the preceding section, there are graduate courses under corresponding numbers in the 600 and 700 series. For example, Forestry 401 is offered at the graduate level as Forestry 601. In addition to these dual-level courses, the following exclusively graduate courses are offered.

801-802-803. PROBLEMS IN SILVICULTURE. 5 hours each. *Mr. Bishop, Mr. Jackson, Mr. May, Mr. Reines,* or *Mr. Walker.*

Application of basic factors such as soils, nutrients, water, light and fire, to the improvement of silvicultural practices through studies of anatomy, physiology, genetics and ecology.

821-822-823. PROBLEMS IN WOOD TECHNOLOGY AND UTILIZATION. 5 hours each. *Mr. Grant* or *Mr. Hamilton.*

Anatomical, chemical, physical, or mechanical properties of wood as related to product technology and utilization. Research in the mensuration and economics of utilization.

841-842-843. PROBLEMS IN FOREST MANAGEMENT. 5 hours each. *Mr. Bamping, Mr. Jenkins, Mr. Parker, Mr. Patterson,* or *Mr. Stoehr.*

Fundamental studies in the mensurational, economic, business, or biological aspects of forest resource management.

881-882. PROBLEMS IN FOREST PROTECTION. 5 hours each. *Mr. Jackson, Mr. Jenkins,* or *Mr. Shear.*

Basic investigations of agencies damaging or destructive to the forest, primarily fire. (Additional graduate work in forest protection is available in the Department of Entomology and the Department of Plant Pathology and Plant Breeding.

921. APPLIED RESEARCH IN FORESTRY. *Staff.*

Provides individual guidance in the development of a significant project related to the student's major field of study. A written report presented in a format meeting professional standards must be submitted and subjected to review by an appropriate faculty committee.

930. THESIS.

THE COLLEGE OF EDUCATION

JOHN ANDREW DOTSON, A.B., M.A., Ph.D., *Dean*

GEORGE BROWN MILLER, JR., B.S.Ae.E., M.Ed., Ed.D., *Assistant to the Dean*

GENERAL INFORMATION

The George Peabody College of Education began in 1903 when Chancellor Walter B. Hill organized the new Department of Philosophy and Education. Dr. Thomas Jackson Woofter was made head of the department. On June 13, 1908, the Department of Philosophy and Education became the School of Education. Dr. Woofter was appointed as the first dean of the new school and served in this capacity for twenty years.

In 1911, the Peabody Board submitted the following contract which was approved by the Governor and the General Assembly:

"In consideration of a grant of $40,000 *by the Trustees of the Peabody Education Fund for the erection and equipment of a building for the Peabody School of Education in The University of Georgia, The University of Georgia hereby agrees to maintain sufficiently and to set apart annually not less than* $10,000 *for the maintenance of this School of Education, this sum to be a perpetual annuity.*

In 1931 the Peabody School of Education of the University, the Georgia State Teachers College, the Department of Rural and Vocational Education of the College of Agriculture, and the Departments of Physical Education for Men and Women were combined. The Peabody College of Education is an integral part of the University of Georgia and by action of the Board of Regents, it provides and administers all professional courses designed for the preparation of teachers and all other educational workers. Its purpose is to assist the student in the acquirement of the knowledge of the subjects which he wishes to teach, to develop a professional attitude toward education, and to develop skill in the use of special methods in teaching and supervision.

The effort of the College is to bring into proper adjustment within the limits of the four-year courses the academic training, the theoretical professional training, and the practical professional training necessary for effective teaching.

The College is a professional school and ranks as such with the other professional schools of the University.

The organization of the Peabody College of Education comprises the following divisions: Undergraduate, Graduate, Research and Service.

HONOR SOCIETIES

Students registered in the College of Education with a major in language and literature are eligible for election to Phi Beta Kappa. Students pursuing a program leading to the degree of Bachelor of Science in Education are eligible for election to Phi Kappa Phi.

KAPPA DELTA PI. A chapter of this national organization was established at the University in 1929. Membership is based upon high scholastic attainments and promise of future usefulness in the field of educational leadership.

KAPPA DELTA EPSILON. This national professional education sorority, primarily for undergraduates, established a chapter at the University in 1956. In order to promote the profession of teaching, this organization selects its members from those students who exemplify desirable personal attributes and high standards of scholastic attainment.

KAPPA PHI KAPPA. The Beta Upsilon Chapter of this national professional education fraternity was established here at the University in 1956. Members are selected from those students (primarily undergraduates) who meet the criteria of scholarship, leadership, professional interest, and high standards.

PHI DELTA KAPPA. This organization is a professional education fraternity which seeks for its membership (primarily graduate students and graduates) those qualified men interested in the ideals of research, service, and leadership in the field of education.

AREAS OF INSTRUCTION

The College offers instruction in the following areas: Administration, Supervision, Guidance and Counseling, Curriculum, Educational Psychology, Research and Measurements, Supervision of Teaching, Elementary Education, Secondary Education, Health and Physical Education, Industrial Arts, Agricultural Education, Home Economics Education, Business Education, Distributive Education, Trade and Industrial Education, Art Education, Music Education, Library Education, Audio-Visual Education, Speech Correction, and the Education of Exceptional Children.

DEGREES

The College offers the following degrees: (a) Undergraduate degree: Bachelor of Science in Education; (b) Graduate degrees: Master of Arts (Education), Master of Education, and Doctor of Education.

CURRICULA

In providing facilities for the preparation of teachers and other educational workers the needs of the following types of workers are recognized and provided for. Each curriculum is sufficiently flexible to meet the special needs of individual students.

Students must make grades of C or above in all required courses in education and in their teaching fields.

UNDERGRADUATE DIVISION

The undergraduate division provides for the following types of teachers: (1) Agricultural, (2) Public School Art, (3) Elementary School, (4) Secondary School, (5) Home Economics, (6) Public School Music, (7) Health and Physical Education, (8) Industrial Arts, (9) Teacher-librarians, (10) Business Education, (11) Distributive Education, (12) Trade and Industrial Education, and (13) Education for Exceptional Children.

GRADUATE DIVISION

The Graduate Division provides for the following: (1) Elementary School Teachers, (2) Elementary School Principals, (3) Secondary School Teachers, (4) Junior College Teachers, (5) Secondary School Principals, (6) School Superintendents, (7) Counselors, (8) School Psychologists, (9) Supervisors and Supervising Teachers, (10) Visiting Teachers, (11) Teach-

ers in special fields such as Health and Physical Education, Industrial Arts, Agriculture, Home Economics, Business Education, and Education for Exceptional Children.

Graduate work in education is distinctly professional in character and is under the administration and supervision of the Graduate School. In addition to this general supervision, special direction in the graduate field of education is provided by the College of Education. A wide range of graduate courses especially designed for those specializing in the higher levels of education is offered. One or more faculty members will be appointed from the staff of the College to act as advisers in arranging and directing the student's program.

The student in cooperation with his advisers will set up his graduate program. The satisfactory completion of four undergraduate courses in education is a prerequisite for any course in education for graduate credit.

Graduate students in education may qualify for the degree of Master of Arts (Education), Master of Education, or Doctor of Education.

GRADUATE PROGRAMS IN EDUCATION LEADING TO MASTER'S DEGREES

Graduate students in education may qualify for either of two degrees at the master's level, depending on their vocational objectives. The degree of Master of Arts (Education) is designed for students whose vocations require training in research procedures. The degree of Master of Education is designed for students whose vocational objectives do not presuppose rigorous training in research procedures but rather a broad background of professional training.

The student should seek the advice of the Chairman of the Division of Graduate Studies of the College of Education in determining the suitability of the degree program to his educational purpose.

The Georgia State Board of Education has approved the College of Education to offer graduate training programs leading to the following types of five-year professional certificates:

Teachers—T-5 certificate
Principals—P-5 certificate
Superintendents—Su-5 certificate
Supervisors—Sv-5 certificate
Visiting Teachers—VT-5 certificate
Teacher-Counselors—T-5 certificate (counselors)

In addition to the officially approved programs listed above, the College of Education offers special training facilities for other educational specialists.

Effective with the Summer Quarter of 1951, the College of Education instituted a planned program of training at the sixth-year level (i.e., one year beyond the master's degree) in each of the five areas of specialization listed above. The completion of such a six-year program does not result in the awarding of an additional graduate degree or a sixth-year professional certificate; but, upon request, the Dean of the College of Education will furnish the student an official statement certifying that he has satisfactorily completed such a sixth-year planned program of specialized training. Admission to any of the sixth-year programs of training is made on the basis of special qualifying examinations. Inquiries concerning the

dates of these qualifying examinations should be addressed directly to the Dircetor of Counselor Training, College of Education.

During his first quarter of graduate residence, the graduate major in Education should request the Chairman of the Division of Graduate Studies, College of Education, to assign him to a major professor. At this time the student will be furnished detailed information concerning the requirements of the graduate degree for which he wishes to become a candidate.

Master of Arts (Education)

The minimum requirement for the degree of Master of Arts (Education) is an approved program of eight courses, residence to the extent of one academic year (which may in some instances be satisfied by a minimum of 30 weeks in residence), and a thesis based upon original source material. Candidates for this degree must have Education 816, *Methods of Formal Research in Education.*

Master of Education

This degree is designed for the students whose vocational objectives call for a background of professional training rather than experience in research. A student who contemplates becoming a candidate for this degree should seek the advice of the Chairman of the Division of Graduate Studies of the College of Education as to the program he should follow. This degree may be attained through either of the two following programs of work:

A. The requirement for the degree of Master of Education may be met by the completion of an approved program of eleven courses (fifty-five quarter-hours) and residence of a minimum of 36 weeks, with at least three of the courses in the student's program being in fields other than Education. Under this plan, the following two courses must be included in the student's program: Education 826, *Methods of Applied Research in Education,* and Education 921, *Laboratory in Applied Education.*

B. Under this option, the requirements for the Master of Education degree may be met by 60 quarter hours of approved course work, these courses to include a minimum of 20 quarter hours outside the field of Education and Education 826.

Doctor of Education

Requirements. In general, the requirements for the Doctor of Education degree are the same as those for the degree of Doctor of Philosophy. Modification is made, however, in the foreign language requirement and in the residence requirement.

The dissertation required for the degree of Doctor of Education will emphasize the intelligent application of research techniques to the solution of a problem connected with educational practice, and it is the most important single requirement for the degree. It is intended to show the candidate's ability to conduct an independent investigation based upon source materials growing out of practical educational problems in his field. The subject chosen must be definite and of limited range, the method of investigation must be formulated with exactness, the sources that are employed must be properly evaluated, and the conclusions must be well-supported.

Candidates for this degree must have the personal qualities necessary for success in their profession, must have had a *broad background of training,* and must have had at least two years of successful experience in the teaching profession. A candidate who is securing training for administra-

tion should include a minor in the social sciences; one who is training for teaching should have a minor in the subject matter field in which he proposes to teach.

The Graduate School will admit to candidacy for this degree only those students who give promise of the power to do original and creative work on educational problems of major and lasting significance.

BUREAU OF EDUCATIONAL STUDIES AND FIELD SERVICES

The functions of the Bureau of Educational Studies and Field Services are: (1) to carry on, when requested, systematic research in problems of the public schools, the State Department of Education, and the University System of Georgia; (2) to provide, when requested, special field service personnel to the public schools and units of the University System to enable them to deal more effectively with the problems facing the System or units; (3) to conduct, when requested and when feasible, surveys of schools and school systems; (4) to train graduate students and others in the techniques of educational research; (5) to edit and publish several studies and other materials of interest to educators and the public; and (6) to assist local school leaders in conducting educational research.

COOPERATING LABORATORY SCHOOLS

Supervised observation and apprentice teaching are required of candidates for a degree in the Peabody College of Education. Students preparing to teach in high school do their apprentice teaching in one or both teaching fields (major or minor); students preparing to teach in the elementary schools have their directed teaching at either the primary or intermediate level, or both. Apprentice teaching is articulated with instruction in general and specific methods to the limits of practical possibility. Observation and apprentice teaching are done under the direction of competent supervising teachers.

Cooperating schools are available as laboratories for observation and participation and provide opportunities for the study of educational problems and practices. The classroom instruction in education is thus combined with the opportunity to observe and participate in the activities of the cooperating schools.

SATURDAY CLASSES

The College of Education holds Saturday classes for superintendents, principals, and teachers living within commuting distance of Athens. The program is planned to meet the expressed needs of those attending. The offerings are on both the graduate and undergraduate levels, and are not limited to work in education.

THE ATLANTA AREA TEACHER EDUCATION SERVICE

The College of Education of the University of Georgia, Emory University, Agnes Scott College, Georgia Institute of Technology, Columbia Theological Seminary, Atlanta Arts Association, in cooperation with six school systems in the Atlanta area, constitute the Atlanta Area Teacher Education Service. The purpose of the Atlanta Area Teacher Education Service is to pool the resources of the higher institutions listed above in providing a program of instruction for the teachers in the Atlanta area. Courses are

offered on both credit and non-credit basis. The cooperating institutions provide the instructional and consultative personnel. Residence graduate credit up to 15 quarter hours may be earned in this program.

Several members of the staff of the College of Education and other units of the University serve as full-time or part-time instructors in the Atlanta Area Teacher Education Service.

OFF-CAMPUS WORKSHOPS

Upon request of county or independent system school officials the College of Education may conduct off-campus workshops each school year. Members of the college staff work with principals, teachers, and other school officials in discovering and solving individual and group problems. Staff personnel are available for work with workshop participants on problems arising in classroom teaching, faculty meetings, and community planning. Graduate or undergraduate credit may be earned in a workshop.

CLINICS

Speech and Hearing Clinic. The Speech Correction Area is concerned with training of teachers and the conducting of research in speech correction. As a part of this process, the Speech and Hearing Clinic extends its services to all children and adults who have functional or organic problems of oral communication. Particular attention is given to assisting University students. The speech or hearing problems are diagnosed and a program for corrective treatment is set up on an individual or group basis. Arrangements for these services are made through the Chairman of Speech Correction.

Clinic for Teachers of Vocational Agriculture. In cooperation with the State Department of Education and the technical departments of the University, both professional and technical short unit courses will be offered to groups of employed teachers throughout the state as a part of a program for the improvement of teachers in service. These courses run from two to five days, depending upon the nature of the problems involved.

Reading Clinic. The Reading Clinic is concerned with the education of teachers of reading and the conducting of research in reading. This Clinic offers both diagnostic and corrective services to elementary and high school pupils. Reading problems are diagnosed, and corrective procedures are suggested. Group or individual corrective sessions are conducted in some instances.

Other Clinics. Other clinics may be organized, staffed, and conducted by the College of Education upon request from groups of educators in the State concerned with various administrative and instructional problems.

COLLEGE OF EDUCATION COUNSELING SERVICE

The College of Education through the office of the Coordinator of Guidance and Student Personnel operates a counseling clinic for the convenience of students enrolled in the College of Education. Qualified counselors are available to help students with professional and personal problems. Personal data folders, developed primarily in group guidance situations in Education 103 and 303 and supplemented by instructors in succeeding education courses, will be on file in the Guidance Office.

As soon as a student enrolls in the College of Education, he will be assigned a faculty adviser who will assist him in educational planning. These faculty advisers will have access to certain information contained in the personal data folders.

Each student, prior to doing apprentice teaching in his senior year, is strongly urged to have a thorough physical examination. Following this suggestion will be a joint responsibility of the student, office of the Coordinator of Guidance and Student Personnel, and the faculty adviser.

STATE CERTIFICATION OF TEACHERS

The following programs of the College of Education, for the preparation of teachers, are approved by the State Board of Education. A person completing any one of these programs may be recommended to the Division of Certification, State Department of Education, for a four-year professional certificate. For further information see the bulletin of the State Department of Education entitled "Certification of Teachers."

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION FOR ELEMENTARY TEACHERS

MRS. SUTTON, *Chairman*

In the preparation of elementary teachers the freshman and sophomore years are devoted chiefly to general education. The program, which includes English, social science, mathematics, physical and biological sciences, music, art, industrial arts, and physical education, is required of all persons planning to teach in the elementary school from kindergarten through the eighth grade. The program for the junior and senior years consists of three parts: required courses in education, required subject matter courses, and approved electives. The student's program develops from continuous planning with an adviser in terms of individual abilities and needs.

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102	10	English 121-122	10
Social Science 104	5	*History 111 and 100 or 112	10
Political Science 101	5	Mathematics 100	5
Human Biology 101-102 or Botany 121-122	10	Economics 105	5
Psychology 101	5	Physics 120, Chemistry 121-122, Geology 125 (2 of the 4)	10
Geography 101	5	Education 201	3
Speech 108	5	Approved Elective	5
Military Science 1 or Air Science 5	6	Military Science 2 or Air Science 6	6
Physical Education 1 (for men) or	0	Physical Education 2 (for men) or	0
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
	50-51		50-51

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the history of Georgia and the United States.

Junior and Senior Requirements

	Hours
Music 302	5
Art 305	5
Education 303	5
Education 304	5
Physical Education 307	5
Education 331	3
Education 401	5
Health Education 344	3
Home Economics 304	3
Approved Electives	10
	49

	Hours
Sociology 431	5
Mathematics 502	5
Education 335.4-336.4	10
Education 346.4-347.4-348.4	15
Approved Electives	10
	45

LIBRARY EDUCATION FOR THE ELEMENTARY TEACHER

Library Education courses, described elsewhere in this catalogue, are open to elementary as well as secondary teachers. By taking 20 quarter hours, including L.E. 303, 304, 305, and 502 the student in elementary education may satisfy the subject matter requirements for certification as teacher-librarian. With the approval of the student's faculty adviser, these courses may be included among electives in the program for the junior and senior years.

PROGRAM FOR THE DEGREE BACHELOR OF SCIENCE IN EDUCATION FOR TEACHERS OF GRADES 7, 8, AND 9*

Mr. Scott, *Chairman*

During the freshman and sophomore years the program emphasizes understanding and using basic subject matter content essential to citizenship and to personal development. The program during these years consists of required courses in English, mathematics, science, social science, fine arts, and physical education. During the junior and senior years the program stresses the development of competence as a 7th, 8th, and 9th grade teacher. During these last two years the program is comprised of courses in two selected teaching fields, courses in professional education, and approved electives.

Freshman and Sophomore Years

	Hours
English 101-102	10
Speech 108	5
Political Science 101	5
Zoology 101-102	10
Mathematics 100**	5
Sociology 105	5
Education 103	5
Military Science 1 or Air Science 5	6
Physical Education (for men)	0
Physical Education (for women)	5
	50-51

	Hours
English 121-122	10
History 100 or 111, and 112	10
Physical Science 101 or Physics 120	5
Economics 105	5
Fine Arts 300	5
Geography 101	5
Psychology 101	5
Military Science 2 or Air Science 6	6
Physical Education (for men)	0
Physical Education (for women)	5
	50-51

*This program is designed to prepare persons to teach English, mathematics, science and social science in these grades. Persons desiring to teach other subjects in these grades should consult the program for the subject in which they are interested.

**Students exempting Mathematics 100 may select some other course, subject to the approval of the student's adviser.

Junior and Senior Requirements***

	Hours
Philosophy 358	5
Teaching Field (see Recommended Courses in Teaching Fields)	20
Second Teaching Field (see Recommended Courses in Teaching Fields)	20
Approved Electives****	15
Education 304, 455, 335J, 336J	20
Education 346J, 347J, 348J	15
	95

RECOMMENDED COURSES IN TEACHING FIELDS FOR TEACHERS OF GRADES 7, 8, AND 9

The student must select any two of the following four teaching fields. Courses must be selected with the approval of the student's adviser and should ordinarily include those listed. However, in individual instances other courses may be approved.

*English** (minimum of 20 hours from the following courses)

	Hours
English 310, Advanced Grammar and Syntax	5
English 304, English Literature since 1800	5
English 422, American Literature since 1865	5
Library Education 502, Principles of Book Evaluation	5
	20

*Persons selecting English as a teaching field should include Education 401, Problems in the Teaching of Reading, as one of their approved electives.

*Mathematics** (minimum of 20 hours from the following courses)

	Hours
Mathematics 101, Trigonometry	5
Mathematics 110, Analytical Geometry	5
Mathematics 356, Statistics	5
Mathematics 254, Differential Calculus	5
	20

*Persons selecting mathematics as a teaching field should include Mathematics 255, Integral Calculus, as one of their approved electives.

***Education courses may be taken at any time during the junior and senior years but should be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or the equivalent.

****These courses must be approved by the student's adviser, should usually include courses in either or both teaching fields, and should be carefully selected to strengthen the student's program. A course in Health Education (Physical Education 344 or 371) is desirable.

*Science** (minimum of 20 hours from the following courses)

	Hours
Botany 121, Elementary Botany	5
Chemistry 121, General Chemistry	5
Physics 127, General Physics-Mechanics	5
Geography 121, The Natural Environment (Landforms)	5
	20

*Persons selecting science as a teaching field should choose Mathematics 101, Trigonometry, Botany 122, Elementary Botany, and Geography 122, The Natural Environment (Climate-Vegetation) as their approved electives.

*Social Sciences** (minimum of 20 hours from the following courses)

	Hours
History 456, Recent American History	5
History 430, Europe since 1914	5
History 459, Georgia History	5
Geography 358, Economic Geography	5
	20

*Persons selecting the social sciences as a teaching field should include History 410, History of the Far East, or History 460, Russia and the Soviet Union, as an approved elective.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION FOR GENERAL SECONDARY TEACHERS

MR. SINGLETON, *Chairman*

In the preparation of high school teachers the freshman and sophomore years are devoted chiefly to general education. The program, which includes English, social studies, mathematics, physical and biological sciences, arts and physical education is required of all persons planning to teach in high school. The junior and senior years consist of a group of required courses in education and an approved program in one or two teaching fields. Electives should be chosen from the field in which the student plans to teach or from related fields, and must be approved by the student's adviser.

Freshman and Sophomore Years

	Hours
English 101-102	10
Speech 108	5
Political Science 101	5
Human Biology 101-102 or Botany 121-122	10
Mathematics 100	5
Education 103	5
Social Studies**	5
Military Science 1 or Air Science 5	6
Physical Education 1 (for men) or Physical Education 1 (for women)	0 5
	50-51

	Hours
History 111 or 100, 112*	10
English 121-122	10
Physical Science***	10
Industrial Arts 332 or Art 305	5
Psychology 101	5
Mathematics 101 or 356	5
Military Science 2 or Air Science 6	6
Physical Education 2 (for men) or Physical Education 2 (for women)	0 5
	50-51

Junior and Senior Years

	Hours
Education 304	5
Teaching Field Courses	30
Approved Electives	10
	45

	Hours
Education 335.5-336.5	10
Education 346.5, 347.5, 348.5	15
Education 455 or approved elective	5
Teaching Field Courses	10
Approved Electives	10
	50

RECOMMENDED COURSES IN TEACHING FIELDS FOR HIGH SCHOOL TEACHERS

The program in the teaching field consists of a minimum of 40 hours concentrated in one broad field with 20 hours of approved electives in this or related fields or 60 hours in two fields. The courses in the teaching field and electives must be planned with the student's adviser. Course selections should be made from the following lists, with those courses marked by an asterisk (*) in each field, being required or strongly recommended for teachers in this field.

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the history of Georgia and the United States.

**One course should be selected from the following: Anthropology 102, Economics 105, Geography 101, Social Science 104, Sociology 105.

***Two courses should be selected from the following: Chemistry 121-122, Geography 121-122, Geography 104, Geology 125-126, Physical Science 101 (Physics 120), Physics 127-128.

ENGLISH TEACHERS**

Minimum of 40 quarter hours from following:

ENGLISH:
*English 303, English Literature to 1800
*English 304, English Literature after 1800
English 305, Lyric Poetry
*English 310, Advanced Grammar and Syntax
English 361, The Short Story
*English 420, American Literature to 1865
*English 422, American Literature after 1865
English 429, Southern Literature
English 440, Shakespeare, Part I
English 441, Shakespeare, Part II

CLASSICAL CULTURE:
Classical Culture 310, English Derivatives from Greek and Latin

SPEECH:
Speech 310, Survey of Speech Problems
Speech 350, Argumentation and Debate
Speech 386, Oral Interpretation of Prose and Poetry
Speech 387, Oral Interpretation of Dramatic Literature

DRAMA:
Drama 360, Play Direction

**A student planning to teach high school English must complete twenty hours or the equivalent in foreign language. These twenty hours may be a combination of high school and college courses. It is recommended that English be combined with a foreign language as a second teaching field.

TEACHERS OF FOREIGN LANGUAGES**

(Minimum of 40 hours in one of the following languages.)

FRENCH:
*French 103 and 104, Intermediate French
*French 106, Intermediate French Conversation and Composition
*French 201 and 202, Introduction to the Study of French Literature
French 433, French Drama of the Twentieth Century
French 434, French Novel of the Twentieth Century
*French 556, Advanced French Syntax and Composition
French 557, French Phonetics
French 581, Problems of Teaching Romance Languages

SPANISH:
*Spanish 103 and 104, Intermediate Spanish
*Spanish 106, Spanish Conversation and Composition
*Spanish 201 and 202, Introduction to Spanish Literature
Spanish 420, The Modern Spanish Novel
*Spanish 526, Advanced Spanish Syntax and Composition
Spanish 528, Spanish Phonetics
Spanish 581, Problems of Teaching Romance Languages

**It is recommended that a foreign language be combined with English as a second teaching field. Students preparing to teach French or Spanish may substitute French 101-102 or Spanish 101-102 for two junior division courses with approval of students' adviser.

LATIN:
*Latin 201 and 202, Elementary Latin
*Latin 203, Intermediate Latin
*Latin 304, Readings in Latin
*Latin 305, Livy
*Latin 306, Horace
Latin 500, Honors Course in Latin
Classical Culture 302, Rome

MATHEMATICS TEACHERS

(Minimum of 40 quarter hours from the following courses.)

*Mathematics 101, Trigonometry
*Mathematics 210, Analytic Geometry
*Mathematics 254 and 255, Calculus
*Mathematics 356, Statistics
Mathematics 401, Differential Equations
Mathematics 402, Vector Analysis
*Mathematics 441, Introduction to Higher Algebra
Mathematics 442, Introduction to Higher Algebra
Mathematics 451, Mathematical Statistics
Mathematics 454 and 455, Introduction to the Foundations of Analysis
*Mathematics 457, Calculus
Mathematics 461, Advanced Analytic Geometry

SCIENCE TEACHERS

(Minimum of 40 quarter hours from following courses)

ASTRONOMY:
Astronomy 391, Descriptive Astronomy

BACTERIOLOGY:
Bacteriology 350, Introductory Microbiology

BOTANY:
*Botany 121 and 122, Elementary Botany
Botany 305, Identification of Flowering Plants
Botany 306, Identification of Trees and Shrubs
Botany 375, Plant Ecology

CHEMISTRY:
*Chemistry 121 and 122, General Chemistry
*Chemistry 340a, Organic Chemistry (First Course)
Chemistry 340b, Organic Chemistry (Second Course)
Chemistry 223, Qualitative Inorganic Analysis
Chemistry 370 and 371, Industrial Chemistry
Chemistry 390, Elements of Physical Chemistry

ENTOMOLOGY:
Entomology 373, General Entomology
Entomology 374, Economic Entomology

GEOGRAPHY:
Geography 121, The Natural Environment (Landforms)
Geography 122, The Natural Environment (Climate-Vegetation)
Geography 310, Conservation of Natural Resources
Geography 401, Regional Climatology and Vegetation

GEOLOGY:

*Geology 125, Elements of Geology (Physical)
Geology 126, Elements of Geology (Historical)
Geology 332, Structural Geology
Geology 402, Geomorphology

PHYSICS:

*Physics 127, General Physics—Mechanics
*Physics 128, General Physics—Heat, Sound and Light
*Physics 229, General Physics—Electricity and Modern Physics
Physics 370, Principles of Photography

ZOOLOGY:

*Zoology 101 and 102, Human Biology
*Zoology 225 and 226, General Zoology
Zoology 350, Vertebrate Natural History
Zoology 353, Animal Ecology
Zoology 390, Animal Physiology
Zoology 454, Aquatic Biology

SOCIAL STUDIES TEACHERS

(Minimum of 40 quarter hours from the following)

ECONOMICS:

*Economics 105, Principles of Economics
Economics 334, Personal Finance
Economics 386, Labor Economics
Economics 437, Comparative Economic Systems
Economics 444, Government and Business
Economics 455, Contemporary Economic Problems

HISTORY:

*History 351 and *352, American History
*History 410, History of the Far East
*History 430, Europe since 1914
History 458, History of American Diplomacy
History 459, History of Georgia
History 460, Russia and the Soviet Union
History 492, The Latin-American Republics
History 495, The United States in World Affairs, since 1900

GEOGRAPHY:

*Geography 101, World Human Geography
*Geography 358, Economic Geography
Geography 436, Geography of the Southeastern States
Geography 441, Caribbean America
Geography 442, South America
Geography 444, Europe and the Mediterranean
Geography 446, Geography of the Soviet Union
Geography 448, Geography of Southeast Asia
Geography 459, North American Urban Geography
Geography 460, North American Industrial and Transportation Geography
Geography 461, North American Agricultural Geography

POLITICAL SCIENCE:
*Political Science 202, American Government
Political Science 307, European Governments
Political Science 406, State Government
Political Science 409, American Political Thought since 1800
Political Science 410, American Political Parties
Political Science 468, City and County Government
Political Science 420, International Relations
Political Science 421, International Organization
Political Science 481, Political Institutions

SOCIOLOGY:
*Sociology 105, Introductory Sociology
Sociology 360, Contemporary Social Problems
Sociology 427, Personality and Social Adjustment
Sociology 431, Principles of Rural-Urban Sociology
Sociology 435, Community Organization
Sociology 461, The Family

SCHOOL LIBRARIAN

MRS. BROADHURST, *Chairman*

The University of Georgia now offers 20 quarter hours work in Library Education. The courses are designed to meet the needs of five groups of persons: (1) students who wish to qualify for positions as librarians or teacher-librarians in elementary or secondary schools; (2) students who wish to prepare for public library service in small communities and rural areas; (3) teachers and prospective teachers who feel the need of wider acquaintance with library materials; (4) administrators and supervisors of public schools; (5) students in other courses by supplying elementary methods of library research.

	Hours
Library Education 303, Utilization of Library Materials	5
Library Education 304, Organization of Library Materials	5
Library Education 305, Administration of a Small Library	5
Library Education 502, Principles of Book Evaluation	5

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN INDUSTRIAL ARTS

MR. HARRISON, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102	10	English 121-122	10
Speech 108 or 150	5	History 111-112*	10
Political Science 101	5	Art 120, 130, 140, or Landscape Architecture 155	5
Education 103	5	Industrial Arts 122	5
Industrial Arts 120, 150	10	Psychology 101	5
Social Science 104	5	Mathematics 100 or Related Substitute	5
Physical Science 101 or Geography 121	5	Military Science 2 or Air Science 6	6
Military Science 1 or Air Science 5	6	Physical Education 2 (for men) or Physical Education 2 (for women)	0 / 5
Physical Education 1 (for men) or Physical Education 1 (for women)	0 / 5	Electives	5
	50-51		50-51

JUNIOR AND SENIOR REQUIREMENTS**

	Hours
Education 304, 335.6, 336.6	15
Education 346.6, 347.6, 348.6	15
Education 455	5
Business Administration 323	5
Industrial Arts 323	5
Industrial Arts 324	5
Industrial Arts 325	5
Industrial Arts 328	5
Industrial Arts 330	5
Industrial Arts 340	5
Industrial Arts 550	5
Electives	20
	95

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the history of Georgia and the United States.

**Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ART

MISS WALL AND MR. GARRISON, *Co-Chairmen*

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Art 120-130-140	15
Education 103	5
Zoology 101-102 or related substitute	10
Speech 108	5
Military Science 1 or Air Science 5	6
Physical Education (for men)	0
Physical Education (for women)	5
	50-51

	Hours
English 121-122	10
Art 131-132-133	9
Art History 181-182-183	9
Political Science 101	5
History 111-112*	10
Physical Science 101, Earth Science 104, or Geography 101	5
Military Science 2 or Air Science 6	6
Physical Education (for men)	0
Physical Education (for women)	5
	53-54

JUNIOR AND SENIOR REQUIREMENTS**

	Hours
Education 304	5
Art Education 335.9-336.9	10
Art Education 346.9-347.9-348.9	15
Sociology 427 or 431	5
Art Courses	
Art 210 or 504	5
Art History (Courses numbered 200 and above)	5
Ceramics	5
Drawing, Painting, or Sculpture Electives	15
Design and Crafts Electives	10
Fine Arts Electives	
Music 350 or 358	5
Drama 222, 334, 335	5
Philosophy 104, 305, 357, or 358 (other courses in philosophy may be elected with the approval of the adviser)	10
	105

*History 100 is required of all students who have registered as Freshmen since September 1, 1954. This requirement may be met by passing the examination or taking the course for non-credit. In either case the requirement must be met by enrolling in History 111 or 112.

**Courses listed as Junior and Senior Requirements constitute the major in Art Education and a student is expected to achieve a grade of "C" or better in all courses.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC EDUCATION

This program now leads to the Bachelor of Music degree in the Franklin College of Arts and Sciences (See page 135).

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BUSINESS EDUCATION

MR. ROACH, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Speech 108	5
Political Science 101	5
Zoology 101-102, or Botany 121-122 or Zoology 225-226	10
Mathematics 100 or 101 and 356	5
Education 103	5
Physical Science****	5
Military Science 1 or Air Science 5	6
Physical Education 1 (for men)	0
or	
Physical Education 1 (for women)	5
	50-51

	Hours
English 121-122	10
History 100 or 112*	5
Psychology 101	5
Art 305 or Industrial Arts 332	5
Economics 105-106	10
Business Administration 110-111	10
Business Administration 108	4
Military Science 2 or Air Science 6	6
Physical Education 2 (for men)	0
or	
Physical Education 2 (for women)	5
	54-55

JUNIOR AND SENIOR REQUIREMENTS**

	Hours
Education 304, 335.7, 336.7	15
Education 346.7, 347.7, 348.7	15
Education 455 or Approved Elective	5
Business Administration 300 a-b-c	9
Business Administration 303, 304, 305	6
Business Administration 310	5
Business Administration 370	5
Economics Electives	10
Electives	22
	92

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the history of Georgia and the United States.

**Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

****Chemistry 121 or 122, Geology 125, Geography 121 or 122, Physics 120, or Earth Science 104.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN DISTRIBUTIVE EDUCATION

MR. ROACH, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Mathematics 100	5
Zoology 101-102 or Botany 110-111	10
Social Science 104	5
Political Science 101	5
Speech 108	5
Physical Science 101 or Geography 121	5
Military Science 1 or Air Science 5	6
Physical Education 1 (for men) or Physical Education 1 (for women)	0 or 5
	50-51

	Hours
English 121-122	10
Art 305 or Industrial Arts 332	5
Psychology 101	5
Economics 105-106	10
Business Administration 110-111	10
Approved elective	5
Military Science 2 or Air Science 6	6
Physical Education (for men) or Physical Education (for women)	0 or 5
	50-51

JUNIOR AND SENIOR REQUIREMENTS*

	Hours
Education 303, 304	10
Education 335.7, 336.7	10
Education 346.7, 347.7, 348.7**	15
Education 349 or approved substitute	5
Economics 585	5
Business Administration 368	5
Business Administration 370	5
Business Administration 560	5
Business Administration 562	5
Business Administration 563	5
Business Administration 567	5
Education 320	5
Approved electives	15
	95

*Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

**Prerequisite: A minimum of 500 hours of paid work experience in a distributive retail, wholesale, or service establishment, on a full or part-time basis. Approval of such work experience must be obtained from the faculty adviser for the Distributive Education program.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN HOME ECONOMICS

MISS CROSS, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
Art 120 or 130	5	English 121-122	10
English 101-102	10	Chemistry 260 or Approved Substitute	5
Political Science or Approved Elective**	5	Economics 105 or Approved Elective	5
Psychology 101	5	Social Science Elective	5
Home Economics 120	5	Home Economics 115	5
Education 103	5	Home Economics 175	5
Zoology 101-102	5	Home Economics 224	5
Chemistry 121	5	Home Economics 293	5
Physical Education 1	5	Physical Education 2	5
	50		50

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Speech 108	5
Bacteriology 350	5
Home Economics 306, 321, 344, 364	18
Home Economics 368, 369, 390, 490	16
Education 455, 335.2, 336.2***	15
Education 346.2, 347.2, 348.2	15
Home Economics 343, 351 or 358, 357 or 377	13
Electives	8
	95

**U. S. Constitution and Georgia Constitution requirements may be met through examinations or through Political Science 101.

***Education courses may be taken at any time during the junior or senior years, but must be taken in the order listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN THE DIVISION OF HEALTH AND PHYSICAL EDUCATION

MR. SMITH, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Education 103	5
Zoology 101-102	10
Social Studies**	5-15
Physical Education 118-119	6
Physical Education 180, 181, 182 (men)****	9
Electives (women)	5
Military Science 1 or Air Science 5	6
Physical Education 1x (Men)	0
Physical Education 1 (Women)	5
	50-51

	Hours
English 121 or 122	5
***Chemistry 121 and 122 or Ag. Chemistry 260	10
History 111-112*	10
Speech 108 or 150	5
Social Studies**	5
Physical Education 280, 281, 282 (Men and Women)	9
Military Science 2 or Air Science 6	6
Physical Education 2x (Men)	0
Physical Education 2 (Women)	5
	49-50

JUNIOR AND SENIOR REQUIREMENTS

CONCENTRATION AREAS

Although a student will receive some training in each one of the fields, Health Education, Physical Education, and Recreation Education, he must, with the approval of his adviser and Head of the Department, set up a program in one of the Concentration Areas at the beginning of the junior year or earlier. A student will be certified in his major concentration with the exception of the Recreation Area. The State Department does not issue certification in the area of recreation. If he desires certification in another area he must satisfy the requirements in that area.

I. PHYSICAL EDUCATION

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3	15
Physical Education 307, 311, 360, 361, 372, 383, 384	29
Zoology 312, 313	10
Physical Education 380, 381, 382	9
Electives	18-20
	96-98

II. HEALTH EDUCATION

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3	15
Phy. Educ. 307, 360, 361, 371, 372, 383	28
Zoology 312, 313	10
Bacteriology 350	5
Family Development 390 or 393	5
Education 455	5
Electives in Related Areas	10
Elective	5
	98

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the history of Georgia and the United States.

**Select one course in Freshman year and one course in Sophomore year from the following: Political Science 101, Economics 105-106, Sociology 105, Psychology 101, Philosophy 104, Anthropology 102, Geography 101, or a substitute approved by the major professor.

***Concentration Area in Recreation Education 10 hours from the following: Chemistry, Ag. Chemistry, Physical Science, Botany, Anthropology, Geography, or Geology.

****Majors in this field are expected to obtain a uniform to be used in activity classes. These should be obtained from the University Book Stores.

III. Recreation Education

Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3	15
Physical Education 307, 311, 372, 384, 385, 386, 387	25
Physical Education 280, 281, 282	9
**Art, Drama, Crafts	15
Sociology	5
Recommended Electives:	
Physical Education 383 (Men and Women)	
Physical Education 380, 381, 382 (Men)	
Physical Education 315, 380, 381, 382 (Women)	14
	98

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN TRADE AND INDUSTRIAL EDUCATION

Mr. Bryant, *Chairman*

Freshman and Sophomore Years

	Hours		Hours
English 101, 102	10	English 121-122	10
Engr. Drawing A.En. 104-105	4	Psychology 101	5
Chemistry 121, 122	10	Economics 105-106	10
Political Science 101	5	History 111-112	10
Education 103	5	Speech 108	5
Mathematics 100	5	Social Science 104	5
Physics 120	5	Electives	5
Elective	2	Military Science 2 or Air Science 6	6
Military Science 1 or Air Science 5	6	Physical Education 2	0
Physical Education 1	0		56
	52		

Junior and Senior Requirements*

	Hours
Education 304, 335.18, 336.18	15
Education 346.18, 347.18, 348.18	15
Education 349	5
Business Administration 351	5
Business Administration 352	5
Business Administration 583	5
Economics 386	5
Industrial Arts 326	5
Industrial Arts 340	5
Electives	24
	89

*Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

**Art 305, 513; Drama 101, Speech 429; Industrial Arts 332.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE WITH A MAJOR IN AGRICULTURAL EDUCATION

MR. TOLBERT, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours
Agricultural Economics 104	3
Agronomy 101 or Horticulture 101	3
Animal Husbandry 101 or Dairy 103	3
Botany 121, 122, and Zoology 225, 226 (3 of the 4)	15
Chemistry 121, 122	10
English 101-102	10
Agriculture 101	1
Mliitary Science 1 or Air Science 5	6
Physical Education 1	0
	51

	Hours
Agricultural Economics 110	3
Agricultural Engineering 220	3
Agronomy 210	5
Chemistry 260	5
Forestry 102	3
Speech 108	5
Mathematics 100	5
Physics 120	5
Political Science 101 and History 100	(10)*
Poultry 160	3
Electives	(0-10)**
Military Science 2 or Air Science 6	6
Physical Education 2	0
	53

JUNIOR AND SENIOR REQUIREMENTS

		Hours
Science Selections		25
Education 304 or 455, and four of the following courses:	5	
Bacteriology 350	5	
Agronomy 423 or Mathematics 356	5	
Plant Pathology 353	5	
Plant Pathology 358	5	
Entomology 374	5	
Sociology 431 or 433	5	
Minor No. 1		10
Agricultural Economics 301	5	
Agricultural Economics 304	5	
Minor No. 2		10
Selected from any department of the University subject to the approval of the adviser.		
Special Requirements		10
Animal Husbandry 373	5	
Food Technology 409	5	
		55

		Hours
Major		25
Education 335.1	5	
Education 336.1	5	
Education 346.1, 347.1, 348.1	15	
Special Requirements		12
Education 349.1	3	
Agricultural Engineering 203	6	
Agricultural Engineering 207	3	
Electives		13
		50

*May be satisfied by passing the Constitution Examination and the Examination on American and Georgia History.

**As determined by the extent to which Political Science 101 and History 100 are satisfied by passing the prescribed examinations.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPEECH CORRECTION

MR. AINSWORTH, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102	10	History 111-112*	10
Speech 108	5	English 121-122	10
Political Science 101	5	Social Science 104, or Economics 105, or Philosophy 104 or 358, or Sociology 105, or Anthropology 102	10
Zoology 101-102 or Related Electives	10	Psychology 101	5
Mathematics 100 or Related Elective	5	Speech 150	5
Education 103	5	Speech 209	5
Physical Science 101	5	Military Science 2 or Air Science 6	6
Military Science 1 or Air Science 5	6	Physical Education 2 (for men) or Physical Education 2 (for women)	0 / 5
Physical Education 1 (for men) or Physical Education 1 (for women)	0 / 5		
	50-51		50-51

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304	5
Education 335.4 and 336.4	10
Education 346.16, 347.16, 348.16	15
Speech 310, 412, 470, 471	20
Speech or Education 474, 476	10
Education 512, 538	10
Psychology 415, 423, and 490 or Education 452	15
Electives	10
	95

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the history of Georgia and the United States.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN TEACHING MENTALLY RETARDED CHILDREN

MR. AINSWORTH, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Geography 101	5
Zoology 101	5
Mathematics 100	5
Education 103	5
Speech 108	5
Art 305	5
Political Science 101	5
Military Science 1 or Air Science 5	6
Physical Education 1 (men)	0
Physical Education 1 (women)	5
	50-51

	Hours
English 121-122	10
History 111-112*	10
Social Science 104, or Economics 105, or Philosophy 104 or 358, or Sociology 105, or Anthropology 102	10
Zoology 102	5
Psychology 101	5
Industrial Arts 332	5
Military Science 2 or Air Science 6	6
Physical Education 2 (men)	0
Physical Education 2 (women)	5
	50-51

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304, 401, 512, 518, 519	25
Education 335.4 and 336.4	10
Education 346.4, 347.4 and 348.17	15
Speech 310	5
Music 302	5
Physical Education 307	5
Psychology 415, 416, 423, 490	20
Electives	10
	95

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the history of Georgia and the United States.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN TEACHING MOTOR HANDICAPPED CHILDREN

MR. AINSWORTH, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours
English 101-102	10
Geography 101	5
Zoology 101	5
Mathematics 100	5
Education 103	5
Speech 108	5
Art 305	5
Political Science 1	5
Military Science 1 or Air Science 5	6
Physical Education 1 (men)	0
Physical Education 1 (women)	5
	50-51

	Hours
English 121-122	10
History 111-112*	10
Social Science 104, or Economics 105, or Philosophy 104 or 358, or Sociology 105, or Anthropology 102	10
Zoology 102	5
Psychology 101	5
Industrial Arts 332	5
Military Science 2 or Air Science 6	6
Physical Education 2 (men)	0
Physical Education 2 (women)	5
	50-51

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304, 401, 512, 525, 526	25
Education 335.4 and 336.4	10
Education 346.4, 347.4 and 348.17	15
Speech 310	5
Music 302	5
Physical Education 307	5
Psychology 415, 416, 423, 490	20
Electives	10
	95

COURSES OF INSTRUCTION

(Peabody Hall, North Campus)

The University reserves the right to withdraw any course for which the registration is not sufficient, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses will meet five times a week and carry a credit of five hours.

*History 100 is required of all students who have registered as freshmen since September 1, 1954. This requirement may be met by passing an examination on the History of Georgia and the United States.

A. Courses in Education for Undergraduate Students.

Basic Courses in Education

The basic courses in education may be sectioned in accordance with the teaching objective of the student. Sectioning will be done in 335, 336, 346, 347, and 348, and may be done in other basic courses in education. Point and figure after the course number will designate section. For example, "335.1" denotes the section for agriculture teachers; "335.4" denotes the section for elementary teachers. Below are the numbers for the different kinds of sections:

.1 agricultural; .2 home economics; .3 health and physical education; .4 elementary; .5 high school; .6 industrial arts; .7 business education; .8 library science; .9 art education; .10 music education; .16 speech correction; .17 special education.

103. An Introduction to Personal and Professional Development. *Mr. Mills, Miss Rooks,* and *Miss Swain.* (For first-quarter freshmen through second-quarter sophomores).

Designed to help the beginning student appraise his strengths and weaknesses through the use of standardized tests, interviews, and other techniques; study the teaching profession; and plan his educational experiences in view of his self study and professional requirements. The status of public schools with special emphasis given to Georgia schools.

201. Human Development and the Educative Process. 3 hours. *The Staff.*

Emphasis will be given to the study of the elementary-school child. Mental, physical, emotional, and social aspects of growth are studied in relation to the educative process. Selective schools will be used for laboratory experiences.

304. Educational Psychology. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Kingston, Mr. Miller,* and *Mrs. Scott.*

A foundation course in the applications of psychology to problems of child growth and development, learning, motivation, measurements, personality adjustments and mental hygiene, and individual differences in school situations.

331. Introduction to Children's Literature. 3 hours. *Miss Cooper* and *Mrs. Dekle.*

A course introducing literature suitable for elementary school children. It includes poetry, prose, biography, informational books with emphasis on selection and stimulation of children's reading.

335. Curriculum Planning. Prerequisite: Education 103 or equivalent. *The Staff.*

Purpose is to develop the ability of the student to engage in curricular activities of the public schools. Emphasis is placed upon procedures for locating, organizing, and summarizing data concerning activities with youth and adults based upon their needs and interests. Several methods of formulating curricular programs are studied and evaluated. Directed observation will be carried on in selected schools. Interests and needs of the students will be cared for in two ways. First, they will be sectioned according to their major interests; that is, vocational agriculture, homemaking, health education, and the general teachers in the elementary and high schools. Second, within each section students will be permitted and encouraged to emphasize the type of work in which they expect to engage; for example, some may be interested in the primary, others in the intermediate levels of instruction, and still others in social science or science on the high school level.

336. Teaching Procedures. Prerequisite: Education 103 or equivalent. *The Staff.*

Evaluation of the teaching procedures used by the teachers in the public schools. Technique used in teaching pre-primary, primary, intermediate, and high school groups; out-of-school youth groups; and adult groups. Selected schools are used for observation. Observation of out-of-school youth and adult groups are made when practicable. Individual interests and needs of students are provided for by sectioning in the same manner as in Education 335.

346, 347, and 348. Apprentice Teaching. 15 hours. Prerequisites: Education 335 and 336. Off-campus Centers. *Staff.*

A cooperative undertaking between the University and selected school systems. The three-fold purpose is: (1) to give college students experience in actual problems of teaching in normal situations, (2) to aid teachers in service, and (3) to assist faculty members of the College of Education in understanding the actual problems in the field for which they are helping to prepare teachers. Students must make application for apprentice teaching through the Office of the Coordinator of Professional Laboratory Experiences at least one quarter before they expect to begin apprentice teaching.

The public schools and the supervising teachers used in the program are carefully selected by the College of Education and are located in the several areas of the state. Each school selected provides facilities and opportunities for the participation of apprentices in the teaching program of that school. The student, for a quarter, becomes a resident of the selected school community and an apprentice to the supervising teacher. He participates in all the responsibilities carried by his supervising teacher, engaging in a total program of teaching activities, gradually advancing from observer to participant and finally to full responsibility as a teacher. His work is under the joint guidance of the local teaching staff and members of the University faculty.

349. SEMINAR IN EDUCATION. 3 hours. Prerequisite: Apprentice Teaching. *The Staff.*

Seminar dealing with problems emerging from experiences in apprentice teaching. Emphasis will be placed upon the planning of a total school program, and the place and responsibilities of each member in the school. Special attention will be given to the work of the public schools in relation to the needs and interests of the community, the nation, and the world.

Additional Courses in Education

303. INDIVIDUAL ANALYSIS AND PROFESSIONAL PLANNING. *Mr. Miller, Mr. Mills, Miss Rooks,* and *Miss Swain.* (No credit allowed if student has credit for Education 103 or equivalent. For third quarter sophomores through first quarter seniors).

Designed to help each student appraise his aptitudes and abilities, to study and choose professional goals, and to make plans for attaining his goals. The study of teaching as a profession and the development and present status of the public schools.

MUSIC 302. METHODS OF TEACHING PUBLIC SCHOOL MUSIC. For education majors only. *Mr. Newman.*

A course of music fundamentals designed for grade teachers.

MUSIC 312. METHODS OF TEACHING MUSIC IN ELEMENTARY SCHOOL. Prerequisite: Music 302. Fine Arts Building. *Mr. Newman.*

MUSIC 313. METHODS OF TEACHING MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS. Fine Arts Building. *Mr. Newman.*

HOME ECONOMICS 304. NUTRITION EDUCATION FOR TEACHERS. 3 hours. Prerequisite: Senior college standing. *Miss Beall* and *Miss Boyd.*

A study of the diet habits of Georgia school children and the relation of nutrition to health. Emphasis is placed on how all teachers working in their classrooms, in schools, and in communities, can enrich school programs and improve the health of school children through nutrition education.

496. (HOME ECONOMICS) PARENT EDUCATION. Prerequisite: Home Economics 490 or 295 or consent of instructor. *Mr. Fowler.*

Working philosophy for parent education; skills in procedure and techniques for working with parents. Opportunity for observation and participation with parent groups, parent conferences, and home visitations.

ART 305. THE VISUAL ARTS. Five laboratory periods. *Mr. Pickens* and *Miss Wall.*

Based upon the art needs of youth, the course will deal with socially useful and personally enriching arts. Studio work, films, excursions, gallery visits, readings, discussions and reports.

ART 513. CRAFTS. Five laboratory periods. *Miss Amos.*

The course develops ability to design 3-dimensionally in terms of material, process, and use. According to the needs of individual students, work is done in clay modeling, puppetry, papier mache, textile printing, simple weaving, and loom construction. Use of native materials is stressed. Students have contact with craft programs for children. The course is planned to meet the needs of teachers.

ART 514. DRAWING AND PAINTING. Five laboratory periods. *Mr. Pickens, Miss Wall,* and *the Staff.*

Students in this course relate their own work in drawing, pictorial composition, color, and techniques to the problems of teaching painting. Through readings, discussions and visits, students study the role of art experience as a means of personal development. Emphasis is placed upon the relationship of art to curricular patterns of the public school.

ART 515. DESIGN. Five laboratory periods. *Mr. Pickens, Miss Wall, and* the *Staff.*

The purpose of the course is two-fold: (1) to deepen and broaden the design sense of students; (2) to help them develop means of teaching design as fundamental to every art activity. In accordance with the needs of students in the class, the course deals with problems of teaching at various age levels.

ART 536. TEACHING OF ARTS IN THE SECONDARY SCHOOL. Prerequisites: Two senior division courses in education, two senior division courses in art, and consent of instructor. *Mr. Pickens.*

For advanced students in art education, supervisors, and administrators. Based upon teaching problems encountered by members of the group. Deals with planning, guiding, and evaluating art experiences that meet adolescent and societal needs within various types of curricular patterns.

ART. 523. MATERIALS AND DESIGN. Five laboratory periods. *The Staff.* (Scheduled only with consent of adviser).

An advanced course offering opportunity to work in one or more of the following fields: pottery, weaving, silk-screen printing, metal working.

ART 539. SUPERVISION OF ART. Prerequisites: Four courses in education, four advanced courses in art, and consent of instructor. *Mr. Pickens* and *Miss Wall.*

Problems deal with the development and administration of an art program to meet needs of pupils and community.

ART 540. ART ACTIVITIES IN THE ELEMENTARY SCHOOL. *Miss Amos, Miss Wall* and *the Staff.*

Students in this course relate their own creative work in painting, designing, and constructing to the teaching of art.

ART 570. ORGANIC DESIGN IN CONTEMPORARY LIVING. Prerequisites: Two senior division courses in education, two senior division courses in art, and consent of instructor. *Mr. Pickens, Miss Wall,* and *the Staff.*

For advanced students in designing in terms of space, movement, and light. Abstract problems and those centered directly in life today are explored.

See other art courses listed under Department of Art, Franklin College of Arts and Sciences.

B. Courses in Education for Advanced Undergraduates and Graduates.

(Courses numbered 400-600 and 500-700 may be taken by advanced undergraduates. Courses 600 and above are for graduate students.)

AUDIO-VISUAL EDUCATION

564. SURVEY OF AUDIO-VISUAL EDUCATION. *Mr. Oliver.*

A survey of principles basic to audio-visual methods in teaching. Various types of instructional materials and equipment and the advantages and limitations of each type. Laboratory experiences to develop skills in the general use of audio-visual materials and equipment.

565. SELECTION AND UTILIZATION OF AUDIO-VISUAL MATERIALS AND EQUIPMENT. *Mr. Oliver.*

Criteria of selection and basic principles of utilization of instructional materials and equipment. Planned around areas of special interest of the class. Laboratory experiences to develop familiarity with materials and the ability to select, maintain, and operate various types of equipment. Primarily for classroom teachers and coordinators of audio-visual programs.

566. ORGANIZATION AND ADMINISTRATION OF THE AUDIO-VISUAL PROGRAM. *Mr. Oliver.*

Problems of organizing and administering a program for the effective local use of audio-visual materials and equipment. Laboratory experiences in selection and evaluation, school plant requirements, costs, steps in developing the program, and measures for appraising adequacy and effectiveness. Primarily for administrators and audio-visual coordinators.

568. PRODUCTION OF AUDIO-VISUAL MATERIALS. *Mr. Oliver.*

Production of audio-visual materials largely in the photographic, sound, and graphic areas. Problems of educational productions on a general and broad scale. Laboratory experiences in the production of materials within some areas of special interest. Primarily for classroom teachers and audio-visual coordinators.

569. SEMINAR IN AUDIO-VISUAL EDUCATION. *Mr. Oliver.*

A research course in audio-visual education directed toward collective effort on projects in which class members are interested. Open only to students who have completed basic courses in audio-visual education and are actively engaged in research in this field or are actively employed in the audio-visual area.

EDUCATIONAL ADMINISTRATION

727. School Personnel. Prerequisites: Four courses in education, including Education 790 or 794. *Mr. Ezell, Mr. Gentry, Mr. Smith,* and *Mr. Sprowles.*

The administration of the school staff, selection, salary schedule, tenure, etc.

790. Educational Administration. Prerequisites: Four courses in education. *Mr. Dotson, Mr. Ezell, Mr. Gentry, Mr. Smith,* and *Mr. Sprowles.*

Basic course for those preparing for administrative positions. Emphasis is placed on the study of modern approaches to theory in school administration.

791. Educational Administration. *Mr. Dotson, Mr. Ezell, Mr. Gentry, Mr. Smith,* and *Mr. Sprowles.*

The second basic course for those preparing for administrative positions. The topics treated are: business management, curriculum making, improvement of instruction, the school plant, relations with the public, and adult education.

794. School Administration. Prerequisites: Four courses in education. *Mr. Dotson, Mr. Ezell, Mr. Gentry, Mr. Sprowles,* and *Mr. Smith.*

A course dealing with the duties of school principals, organization and administration of the individual school, the principal's responsibility for the curricula of his school and for supervision, the principal's relationships. Not open to students who have credit for Education 793. (794.4 will be used for Elementary School Principals; 794.5 for Secondary School Principals.)

795. State and County School Administration. Prerequisite: Four courses in education including Education 790 or equivalent. *Mr. Dotson, Mr. Ezell, Mr. Gentry, Mr. Smith.* and *Mr. Sprowles.*

The relation of the Federal Government to Education; the State Department of Education and the functions of its various divisions; local units of administration; the relationships of the superintendent; county boards of education; school law, certification of teachers; the county unit system; consolidation and transportation.

797. The School Plant. Prerequisites: Four courses in education and two courses in school administration. *Mr. Ezell, Mr. Gentry, Mr. Smith,* and *Mr. Sprowles.*

Designed to aid the student in understanding: (1) the cooperative planning basic to the development of a school plant program for a given community; (2) how to execute school plant plans; (3) the operation and maintenance of the school plant.

798. School Finance and Business Management. Prerequisite: Education 790. *Mr. Ezell, Mr. Gentry, Mr. Smith,* and *Mr. Sprowles.*

Directed toward: (1) problems and issues involved in financing a school system; (2) sources of revenue; (3) budget making; (4) financial accounting of school funds in the superintendent's and principal's office.

899. School Law. Prerequisite: Four courses in Education, including one course in educational administration. *Mr. Feild.*

Makes available to administrators and to classroom teachers instruction in the legal principles which are applicable to public education. Contains three principal divisions: (1) The nature and structure of the public school system; (2) teacher problems; and (3) student problems.

CURRICULUM

405. Fundamentals of the Curriculum. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox, Mr. Dickerson, Mr. Newsome,* and *Mr. Sprowles.*

Introduction to the basic principles of curriculum theory as found in psychology, anthropology, sociology, economics, and political science. Application is made to Georgia schools and schools of the Southeast.

506. Curriculum Planning. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox, Mr. Dickerson, Mr. Newsome,* and *Mr. Sprowles.*

Study of and practice in the development of curricular programs for the elementary and secondary schools of contemporary America. Special application to Georgia schools and schools of the southeastern states.

EDUCATIONAL PSYCHOLOGY

412. PROBLEMS IN EDUCATIONAL PSYCHOLOGY. Prerequisite: Education 304. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison,* and *Mr. Greene.*

A course designed to provide opportunities for the advanced student to secure specialized training in selected areas of educational psychology, e. g., individual differences, motivation, evaluation procedures, etc.

452. PSYCHOLOGY OF CHILDHOOD. Prerequisite: Education 304 or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Greene, Mr. Kingston, Mr. Miller,* and *Mrs. Sutton.*

A course designed to develop functional skills in understanding the interests, needs, and abilities of elementary pupils and in evaluating the total development of elementary pupils.

455. PSYCHOLOGY OF ADOLESCENCE. Prerequisite: Education 304 or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Greene, Mr. Kingston,* and *Mr. Miller.*

A course designed to develop functional skills in understanding the interests, needs, and abilities of adolescents and in evaluating the total development of adolescents.

636. FUNDAMENTALS OF CHILD STUDY. *Mr. Shufelt.*

Techniques of learning to study a child. Includes the history and purposes of child study, the basic assumptions and philosophies, the necessary scientific knowledge, planning to make tentative and alternative hypotheses about the causes of specific bits of behavior and learning, spotting recurring patterns of behavior, and processing a case record in terms of developmental tasks and adjustment problems indicated by recurring behavior and situations.

684. ADVANCED CHILD STUDY. Prerequisite: Four courses in education including Education 636. *Mr. Garrison* and *Mr. Shufelt.*

Emphasis is placed on the scientific interpretation of a case record. An organizing framework of six dynamic areas is introduced, namely: physiological processes, affectional processes, peer group processes, socialization processes, self-developmental processes, self-adjustive processes. The framework serves two purposes: it provides a way of organizing the facts in the individual child's record; it provides a way of organizing the scientific principles and generalizations which will explain the child's behavior and which are developed through lectures and directed reading.

686. CHILD STUDY AS A BASIS FOR EDUCATIONAL PLANNING. Prerequisite: Education 636 and 684. *Mr. Shufelt.*

Attention is directed toward the educational implications of a scientific understanding of children. Each teacher builds up and interprets a case record on a child, emphasizing the self-processes. Sociometric techniques are used to analyze the group structure in the classroom in order to see the peer relationships more clearly. The interpretation of the case record and the analysis of the group relationships as they affect the child being studied are used as a basis for examining the school program and for planning scientific ways to help the child with his developmental tasks and adjustment problems. Reading is directed specifically toward a deepening of the understanding of the self-processes and an examination of the literature in the field of sociometry.

802. ADVANCED EDUCATIONAL PSYCHOLOGY. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison,* and *Mr. Greene.*

A consideration of the practical applications of the scientific findings of educational psychology to the more complex problems involved in the growth and development of learners.

EDUCATIONAL RESEARCH AND MEASUREMENTS

418. STATISTICAL METHODS IN EDUCATION. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Greene,* and *Mr. Scott.*

A course designed to develop an understanding of the appropriate uses of statistical methods in education and to develop basic skills needed in the analysis of quantitative data in education.

421. SPECIAL PROBLEMS IN EDUCATION. *The Staff.*

For selected students to secure specialized training experience uniquely appropriate to the needs of the individual. The student's project may involve intensive library investigation in a special field or the collection and analysis of original data pertinent to a given problem.

456. EDUCATIONAL TESTS AND MEASUREMENT. Prerequisites: Four courses in education. *Mr. Aaron, Mr. Bledsoe,* and *Mr. Kingston.*

Nature and function of measurement, the traditional examination, new-type tests, standardized tests, surveys and diagnostic tests, remedial teaching based upon diagnostic tests, measures of central tendency, measures of variability, tests and the classroom teachers, tests and the administrators.

615. PROBLEMS IN THE EVALUATION OF INSTRUCTION. *Mr. Bledsoe* and *Mr. Greene.*

This course will deal with the nature and function of measurements, the traditional examination, new type tests, standardized tests, surveys and diagnostic tests, observational techniques, and other criteria. Special emphasis will be given to the interpretation of the results secured from evaluative technique.

801. SEMINAR IN EDUCATION. Prerequisite: Education 826 or 816 and six courses in Education and Psychology. *Mr. Greene* and *the Staff.*

Study and evaluation of research studies and the application of findings to problems in various instructional areas, such as administration, supervision, guidance and counseling, elementary and secondary education, vocational education, and education of exceptional children. This course may be offered as needed by any or several of the above instructional areas.

812. ADVANCED STATISTICS IN EDUCATION AND PSYCHOLOGY. Prerequisite: Education 418 (618) or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Greene,* and *Mr. Scott.*

Statistics of inference, sampling techniques, analysis of variance and co-variance, introduction to principles of experimental design.

816. METHODS OF FORMAL RESEARCH IN EDUCATION. *Mr. Bledsoe, Mr. Greene,* and *Mr. Scott.*

Designed to develop the research competencies involved in the planning, conducting and reporting of masters theses, doctoral dissertations and similar formal research projects in Education. This course is required of all candidates for the degree of Master of Arts (Education) and must be completed before the student is permitted to register for Education 930.*

818. EVALUATION IN EDUCATION. (No credit allowed if student has credit for Education 615). Prerequisites: Four courses in education and consent of the instructor. *Mr. Bledsoe, Miss Cox, Mr. Greene, Mr. Perrodin,* and *Mrs. Sutton.*

A course dealing with the construction and application of various types of evaluative instruments: check lists, rating scales, anecdotal records, questionnaires, projective techniques, standardized and non-standardized tests.

826. METHODS OF APPLIED RESEARCH IN EDUCATION. *Mr. Bledsoe, Mr. Greene,* and *Mr. Scott.*

Designed to develop the research skills and related competencies involved in the planning, conducting and reporting of applied research studies of the type required of all candidates for the degree of Master of Education and must be completed before the student is permitted to register for Education 921.**

900. THESIS AND DISSERTION SEMINAR. Non-credit. Prerequisites: Four courses in education and advanced graduate standing. *The Staff.*

All candidates for graduate degrees will enroll for this course without credit. Opportunities will be provided for critical consideration of investigation being made by graduate students majoring in education.

916, 917, 918. EDUCATIONAL RESEARCH. 5-15 hours. Prerequisites: Four courses in education and graduate standing. *Authorized members of College of Education Staff.*

These courses provide opportunity for the student doing advanced graduate work to carry on individual investigation in the fields of his specialization under the guidance of the faculty member or members particularly qualified in the field under consideration.

921. LABORATORY IN APPLIED EDUCATION. Prerequisites: Four courses in education. *The Staff.*

Designed to provide opportunities for advanced students to undertake functional studies of topics or problems in education significantly related to their professional tasks. For most students it will involve supervised work in the attempt to solve one or more practical school problems related to their normal duties.

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*Under exceptional circumstances, upon recommendation of major professor and with approval of the Dean, Education 826 may be substituted for 816 if the training needs of the student seem to justify same.

**Under exceptional circumstances, upon recommendation of major professor and with approval of the Dean, Education 816 may be substituted for 826 if the training needs of the student seem to justify same.

EXCEPTIONAL CHILDREN

512. INTRODUCTION TO EXCEPTIONAL CHILDREN. Prerequisites: Four courses in Education including Education 304. *Mrs. Blake* and *Miss Scott.*

Nature, causes, and treatment of children's disabilities and their influence on emotional, social, educational, and vocational adjustment. Special services required for exceptional children to develop to the maximum capacities will be considered.

518. NATURE OF MENTAL RETARDATION. Prerequisites: Education 304, 512, plus three additional courses in Education. *Mrs. Blake* and *Miss Scott.*

Description of types, nature, and causes of mental retardation and implications for adjustment and education. Consideration will be given to problems of parental adjustment, diagnosis, treatment and educational modifications.

519. MATERIALS AND METHODS OF TEACHING SKILL SUBJECTS TO THE MENTALLY RETARDED. Prerequisites: Four courses in Education plus Education 512 and 518. *Miss Scott.*

The study, selection and preparation of suitable curricular materials, and consideration of the modifications of methods used in teaching the skills which mentally retarded children need.

525. NATURE AND TREATMENT OF MOTOR HANDICAPS. Prerequisites: Four courses in Education plus Education 512. *Mrs. Blake.*

Nature and causes of motor handicaps with emphasis on cerebral palsy. An understanding of the contributions of various therapies, equipment, and services of physical therapy, occupational therapy, speech correction, and play therapy.

526. EDUCATION OF CHILDREN WITH MOTOR HANDICAPS. Prerequisites: Four courses in Education plus Education 512 and 525. *Mrs. Blake* and *Miss Scott.*

The study, selection, and preparation of suitable materials and modifications of methodology to meet the educational and psychological needs of motor handicapped children.

GUIDANCE AND COUNSELING

420. FUNDAMENTALS OF A GUIDANCE PROGRAM. *Mr. King, Mr. Miller, Mr. Mills, Miss Rooks,* and *Miss Swain.*

Designed for the purpose of identifying representative educational, vocational, and personal problems of individuals and planning a program of guidance service that will best assist individuals in solving these problems. A study will be made of each of the areas of guidance services and their relationships. This course is planned as an introduction to professional training for counselors and as an opportunity for teachers and principals to acquire an overview of guidance functions in the total school program.

521. ANALYSIS OF THE INDIVIDUAL. *Mr. King, Mr. Miller, Mr. Mills,* and *Miss Swain.*

Emphasis is placed on the study and use of techniques for discovering characteristics of individuals. Students registering for this course will be expected to develop competencies in recording, analyzing, correlating, and interpreting data as they relate to counseling.

523. COUNSELING. Prerequisites: Four courses in education and one course in guidance. *Mr. King, Mr. Miller, Mr. Mills,* and *Miss Swain.*

Purpose is to provide opportunities for students to develop abilities for dealing with problems of individuals in counseling situations. Registrants will aid in making personal analysis to determine interview techniques to be used. The place of catharsis in psycho-therapy and counseling will be investigated. Practice in using the interview in obtaining information, giving information, and changing attitudes will be provided.

524. EDUCATIONAL AND OCCUPATIONAL INFORMATION. Prerequisite: Four courses in education and consent of instructor. *Mr. King* and *Mr. Mills.*

Comprises a study of the nature, sources and functions of information about educational and occupational opportunities, their relationship and use in assisting individuals to formulate comprehensive plans in these areas. An examination and evaluation will be made of techniques for discovering, collecting, filing, interpreting, and using this information in counseling. Practice in the use of these techniques will be emphasized. Making community surveys and follow-up studies will be considered as a means of securing pertinent information.

750. COUNSELING PRACTICUM. Prerequisite: Consent of instructor. *Mr. King, Mr. Miller, Mr. Mills,* and *Miss Swain.*

Students will make comprehensive plans for counseling in the clinic under staff supervision. Each will have a case load under as near ideal conditions as possible. All skills developed in guidance preparations will be used. Counseling competence will be evaluated.

METHODS OF TEACHING

401. PROBLEMS IN THE TEACHING OF READING. *Mr. Aaron, Miss Cooper, Mrs. Dolvin, Mrs. Sutton,* and *Mr. Wootton.*

This advanced course in the teaching of reading will familiarize the student with the major causes underlying disability in reading and will guide him in planning a program that will to some extent prevent difficulties from arising. The student will be enabled, through observation and participation, to diagnose reading difficulties in the classroom and to plan a corrective program of instruction based on that diagnosis. Students will become familiar with the significant body of research that indicates the important recent trends in the field of reading.

402. THE ANALYSIS AND CORRECTION OF READING DISABILITIES. *Mr. Aaron, Mrs. Dolvin,* and *Mrs. Sutton.*

Various causes of reading disability; developing a familiarity with methods and materials of diagnosis; procedures and materials for corrective work, both group and individual.

517. PROBLEMS OF TEACHING. Prerequisites: Four courses in education. *Miss Burnham, Miss Cooper, Miss Cox, Miss Cross, Mr. Perrodin, Mr. Roach, Mr. Scott, Mr. Singleton, Mrs. Sutton, Miss Tingle,* and *Mr. Wootton.*

Places special emphasis upon instructional procedures and evaluation of teaching in terms of child growth. Growth and the child's ability to use the skills and his ability to adjust socially and in the use of his creative ability will be emphasized.

566. JOURNALISM IN THE SECONDARY SCHOOL. (Also offered as Journalism 566). *The Staff.*

A survey of news gathering, news writing, copy reading, typography, and business management, with specific relation to the high school newspaper. Also school public relations.

581. (FRENCH OR SPANISH). PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of education in addition to French or Spanish 104. *The Staff.*

History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary, tests and measurements. Evaluation of texts, course intent.

604. GUIDING THE READING OF CHILDREN. *Mrs. Dolvin.*

The study of literature and methods of reading guidance for children is based upon a careful consideration of their needs and interests. Books are discussed in relation to broad areas of interest. By means of individual projects, emphasis may be placed upon the problems of particular students.

731. PROBLEMS IN VOCAL MUSIC EDUCATION. 3 hours. *The Staff.*

Detailed study of voice problems from classroom point-of-view, beginning in elementary and continuing through secondary school; techniques used in choral ensembles; evaluation of present concepts and practices.

732. PROBLEMS IN INSTRUMENTAL MUSIC EDUCATION. 3 hours. *The Staff.*

Study of techniques used for development of the instrumental music program, beginning in elementary and continuing through secondary schools; diagnosis of problems relating to strings, woodwinds, brasses, and percussion instruments.

733. MUSIC ADMINISTRATION AND CURRICULUM. 3 hours. *The Staff.*

Development of music curriculum as part of general educational planning; evaluation of school curricula and how music can become a functional part; problems in music administration, personnel, finances, and equipment.

734. CHORAL MUSIC MATERIALS. 3 hours. *The Staff.*

Study of music literature available for use in public schools at all levels of instruction; research in materials of various schools of composition and mediums which can be adapted for school use.

735. INSTRUMENTAL MUSIC MATERIALS. 3 hours. *The Staff.*

Evaluation of present materials available at all levels of instruction; research in materials of various mediums and schools of composition which can be adapted for school use.

767. DIAGNOSTIC AND CORRECTIVE TECHNIQUES IN SCHOOL SUBJECTS. Prerequisite: For advanced students well grounded in basic techniques in teaching. *Instructor depending on the school subject involved.*

A study of techniques involved in locating blocks to the learning of children, and of procedures for overcoming such difficulties. Separate sections will be formed for the different school subjects and different age levels. A large amount of practice and individual investigations will be required. A mastery of the literature of experimentation in a given field will be expected.

PHILOSOPHY OF EDUCATION

800. Basic Issues in Education. Prerequisite: Four courses in education. *Mr. Newsome.*

An interdisciplinary study of basic issues in modern American education.

803. Philosophy of Education. Prerequisites: Four courses in education and consent of the instructor. *Mr. Newsome* and *Mr. Sprowles.*

Problems of educational aims and values; sources of a science of education; a study of the major philosophical schools of thought in education; education for a changing social order; the new philosophy and the school; the new curriculum; reconstruction of educational ideas.

807. American Higher Education. Prerequisite: Four courses in education. *Mr. Newsome.*

A study of the theories and principles of American higher education and the various types of institutions of higher education.

808. History of Education. Prerequisite: Four courses in education. *Mr. Newsome.*

A historical study of the persistent and recurring problems of education in Western Culture.

PLANNING EDUCATIONAL PROGRAMS

W560-W760. Educational Planning and Development. Workshops. *The Staff.*

The primary purpose of these workshops is to prepare selected school personnel for participating in programs of educational planning and development. The participants will have an opportunity to formulate plans for carying on educational development of programs at the local school and county level and in special areas. A maximum of four workshops (20 hours) may be taken by any one registrant.

The area of specialization of the registrant will determine which workshops are appropriate for him. Areas are indicated by the following:

Curriculum, Agriculture, Home Economics, Health & Physical Education, Elementary, High School, Industrial Arts, Business Education, Library Service, Art Education, Music Education, Evaluation, Research and Measurements, Audio-Visual Aids, Resource Use, Nutrition Education, Speech Correction, Administration, Supervision, Counseling, Visiting Teacher, Supervising Teacher, Apprentice Teaching, Corrective Techniques in School Subjects and Special Education.

SPEECH CORRECTION

Additional required and elective courses for students majoring in speech correction may be found under the Department of Speech and Drama and the Department of Psychology.

474. Voice and Articulatory Disorders of Speech. (Same as Speech 474). Prerequisite: Speech 470. *Mr. Ainsworth* and *Mr. Luper.*

Etiology and the rationale and methods of therapy for functional and organic disorders of voice and articulation. The development of a therapeutic program and lesson plans. Supervised clinical practice in voice and articulatory disorders with individuals and groups.

476. Stuttering: Etiology and Therapy. (Same as Speech 476). Prerequisite: Speech 470. *Mr. Luper.*

Major theories of causation of stuttering, whether based in neurophysiological, emotional, or learning factors. The development of an integrated therapy based on modern research in stuttering. Supervised clinical practice in individual and group therapy for stutterers.

534. Classroom Problems in Speech Correction. (Atlanta Area Teacher Education Service only). Prerequisite: Four courses in Education. *Mr. McCroskey.*

Designed for the classroom teacher. The scope of the problem of defective speech, the common etiologies, identification of speech defects, and the role of the teacher in referral, examination and correction. Clinical demonstrations in cooperation with the Junior League School for Speech Correction.

535. (Speech) Directed Individual Study in Speech Correction. Prerequisite: Four courses in Speech Correction. *Mr. Luper.*

Adaptation of the speech correction curriculum to the individual needs of mature students. A detailed outline of requirements must be prepared in conference by the student and instructor and approved by the Chairman of Speech Correction.

536. (SPEECH) DIRECTED INDIVIDUAL STUDY IN SPEECH CORRECTION. Prerequisite: Four courses in Speech Correction. *Mr. Luper.*

Outline of work must be approved in the same manner as for Education 535, but content must be different.

537. (SPEECH) SEMINAR IN SPEECH PATHOLOGY. Prerequisite: Six courses in speech correction or four courses and consent of the instructor. *Mr. Ainsworth.*

Intensive and thorough exploration of the research and theory in one or more areas of speech pathology. Specific content in any one quarter will be adapted to the particular needs of the students. Group projects may be carried in addition to readings and lectures.

538. PROGRAM ADMINISTRATION AND CLINICAL PRACTICE IN SPEECH CORRECTION. Prerequisite: Speech 470 and one content-clinical practice course in speech correction. *Mr. Ainsworth.*

Methods for finding, selecting and scheduling speech cases in the public schools. The organizational and administrative problems in keeping records, reporting, and coordinating speech correction activities. Basic plans for various sizes of schools and school organizations. Supervised clinical practice with a variety of speech problems.

539. ADVANCED CLINICAL PRACTICE IN SPEECH CORRECTION. Prerequisite: Six courses in speech correction and 200 clock hours of supervised clinic practice. *Mr. Luper.*

Gives the advanced student an opportunity to work with more complex and difficult problems of speech combined with intensive readings, conferences, and discussions regarding therapy for the specific types involved in the clinical practice.

835. (SPEECH) ORGANIC DISORDERS OF SPEECH. Prerequisite: Six courses in speech correction. *Mr. Ainsworth.*

Pathologies affecting speech, the speech tests and therapy for cases of cleft palate, cerebral palsy, aphasia, laryngectomy and retarded speech. Role of the speech pathologist in the medical-psychological-education-speech therapist team for the rehabilitation of physically and emotionally handicapped individuals.

SPEECH AND HEARING CLINIC

The Services of the Speech and Hearing Clinic are available to individuals who have speech or hearing problems. The clinic functions as part of the training program in Speech Correction. Those interested in receiving help should contact Dr. Stanley Ainsworth.

EDUCATIONAL SUPERVISION

730. SUPERVISION OF INSTRUCTION. Prerequisites: Four courses in education and consent of the instructor. *Miss Burnham, Miss Cox, Mr. Dickerson, Mr. Perrodin, Mr. Singleton, Mr. Smith, Mr. Sprowles.* and *Mrs. Sutton.*

Open to instructional supervisors, supervising teachers, classroom teachers, administrators and other curriculum workers. Includes a comprehensive study of the basic concepts of supervision and emphasizes ways and means of improving instruction through supervision.

732. SEMINAR IN SUPERVISION. Prerequisites: Three courses in supervision and consent of instructor. *Miss Burnham* and *Miss Cox.*

For supervisors at an advanced graduate level. The purpose is to: (1) identify and make investigation into problems of supervision, (2) study research in supervision, (3) encourage experimentation in the use of supervisory procedures, and (4) stimulate writing for professional journals.

733. SEMINAR IN GROUP DEVELOPMENT. Prerequisite: One course in supervision, administration, or counseling and consent of instructor. *Miss Burnham* and *Miss Cox.*

For those persons engaged in leadership positions and interested in further training in group leadership. Major emphasis is placed upon: (1) developing an understanding of group process and increasing sensitivity to problems of group work, (2) improving behavioral skill in group leadership and membership roles, and (3) improving methods used in planning and conducting educational programs.

746. INTERNSHIP. *Authorized members of the College of Education Staff. (Major Professor).*

A cooperative undertaking between the University of Georgia and school systems in the state. The purpose is to give the student carefully directed experience in selected schools. It is a study-work program. At least sixty hours are spent during the course in a class or conference type of activity where critical study is made of problems encountered by the intern; the remainder of the time is spent in applying the principles learned to the regular job. Contributing to this program are consultants from other teacher-education institutions, the State Department of Education, experienced supervisors, county superintendents, principals, and teachers.

747. INTERNSHIP. *Authorized members of the College of Education Staff (Major Professor).*

A continuation of the study and practice begun in Education 746.

830. INVESTIGATION IN SUPERVISION. Prerequisites: Four courses in education and consent of instructor. *Miss Burnham, Miss Cox, Mr. Dickerson, Mr. Perrodin, Mr. Singleton, Mr. Smith,* and *Mrs. Sutton.*

Purpose is to give advanced graduate students an opportunity to do research on instructional procedures. Such problems as the comparison of methods of teaching, the evaluation of instructional materials, or the evaluation of supervisory programs, may be studied. Supervisors and those planning to enter supervisory work will find this course of practical assistance.

TRADE AND INDUSTRIAL EDUCATION

541. PRINCIPLES AND PRACTICES IN TEACHING INDUSTRIAL SUBJECTS. *Mr. Bryant.*

A study of principles and practices of teaching manipulative skills and related technology; organization of subject matter, lesson planning and student appraisal.

542. SCHOOL SHOP EQUIPMENT AND MANAGEMENT. *Mr. Bryant.*

For teachers, supervisors and administrators. Principles involved in the physical planning of school shops and laboratories; selection of tools and equipment. Special emphasis on equipment and management of school shops in trade schools.

543. CURRICULUM PLANNING FOR TRADE AND INDUSTRIAL SUBJECTS. *Mr. Bryant.*

A course for teachers and supervisors, dealing with specifications of the instructional situation in terms of objectives and facilities; selection from suitable occupational analysis or other sources of content to be taught; typical teaching plans for various units of instruction; evaluation and accrediting of learner accomplishment. Special emphasis will be given to curricula for area vocational schools.

544. COORDINATION OF DIVERSIFIED COOPERATIVE TRAINING. *Mr. Bryant.*

This course deals with procedures in organizing a diversified cooperative training program; selection and placement of trainees; analysis of job processes; organization of instructional material; methods of teaching; relationship with other phases of the high school program, with cooperating business establishments and with the public in general.

545. PROBLEMS IN TRADE AND INDUSTRIAL EDUCATION. *Mr. Bryant.*

The first unit of this course deals primarily with occupational analysis. Various purposes and types of analyses as sources of teaching content for vocational subjects will be studied. The second unit of this course will deal with course organization. Topics will include specification of the teaching situation, nature of instruction units, use of occupational analysis, selecting both performance and informational content for the teaching situation, and organization of this content into effective teaching sequences. The third unit of the course will deal with methods of teaching workshops. The topics studied will be the nature of performance learning, standards for learner accomplishments, methods of recording learner progress and demonstration of performance lessons. Each student will work out a list of performer lesson assignments and teaching plans in terms of the occupation which he is teaching.

VOCATIONAL EDUCATION

671. ADULT EDUCATION. Prerequisite: Four courses in education and consent of the instructor. *Miss Beall, Mr. Bryant, Miss Cross, Mr. O'Kelley,* and *Mr. Tolbert.*

The primary purposes are: (1) to develop a philosophy of adult education, (2) to develop techniques for discovering adult problems, and (3) to discover and apply appropriate methods of organizing and teaching adult groups. The course is designed to meet the needs of experienced teachers, rural school supervisors and administrators, and other adult leaders.

763. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisite: Four courses in education and consent of the instructor. *Miss Beall, Miss Boyd, Miss Cross, Mr. O'Kelley,* and *Mr. Tolbert.*

Designed to meet the needs of experienced teachers in the field of vocational education and school administrators who want additional training in specific problems of teaching. The course is planned so that students may work at their special interest, individually or in groups.

771. TEACHING PROCEDURES IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Boyd, Miss Cross, Mr. O'Kelley,* and *Mr. Tolbert.*

Designed to meet the needs of those teachers in the field of vocational education who desire guidance in improving teaching procedures. Consideration is given to the development of curricula based on the needs and interests of students, the organization of the curricula into teaching units, the planning of units for instruction, teaching and evaluation.

772. EVALUATION IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Cross, Mr. O'Kelley,* and *Mr. Tolbert.*

Has two primary purposes: (1) to guide teachers, supervisors, and administrators to develop the ability to evaluate departments and programs of vocational education in schools and communities, and (2) to guide teachers in the development of methods and techniques for evaluating their own instruction.

773. SUPERVISION OF VOCATIONAL TEACHING. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Boyd, Mr. Bryant, Miss Cross, Mr. O'Kelley,* and *Mr. Tolbert.*

Major emphasis is placed upon the following: (1) developing a point of view or philosophy of teacher education; (2) analyzing the present teacher training program in vocational education in Georgia, to discover problem situations that may be used as a basis for teacher education programs, (3) determine the relative emphasis that each teacher-training agency should place upon the solution of the several problems in the teacher-education program, and (4) projecting plans for an apprentice training program.

C. Industrial Arts.

I.A. 120. GENERAL SHOP. One single and four double periods. *Mr. Harris* and *Mr. Nix.*

A general survey course for acquainting the student with a wide variety of materials, tools, and procedures.

I.A. 122. BEGINNING WOODWORK. One single and four double periods. *Mr. Nix.*

Includes the planning, construction, and finishing of industrial arts woodworking projects.

I.A. 150. INDUSTRIAL ARTS DRAFTING. One single and four double periods. *Mr. Harrison* and *Mr. Nix.*

A course in which a study is made of reading and writing a graphic language. A portion of the time will be devoted to developing working drawings which have application to industrial arts projects.

I.A. 323. INDUSTRIAL ARTS DESIGN. One single and four double periods. *Mr. Harrison.*

A course in which good industrial arts designs are studied and the principles underlying good design are applied to plans developed by the students.

I.A. 324. METAL WORK. One single and four double periods. *Mr. Harrison* and *Mr. Nix.*

A course in metal in which the use of hand tools with skill is emphasized. The course includes the planning, construction, and finishing of industrial arts projects in metal.

I.A. 325. ADVANCED WOODWORK. One single and four double periods. *Mr. Harrison.*

A continuation of beginning woodwork with more emphasis on power machinery.

I.A. 326. MATERIALS AND MATHEMATICS OF INDUSTRY. *Mr. Nix.*

Common materials of industry and the methods employed by industry in producing these materials. Determining sizes and costs of materials. Problems will be introduced in board foot measure, gear ratio, determining shop speeds for various machines and other computations directly related to industrial arts work.

I.A. 328. ADVANCED GENERAL SHOP. One single and four double periods. *Mr. Harrison.*

A continuation of Industrial Arts 120 in which the student works on advanced projects and gains experience in carrying on a general shop program.

I.A. 330. ADVANCED DRAFTING. One single and four double periods. *Mr. Harrison.*

A continuation of beginning drafting. Advanced problems in drafting and machine design are studied.

I.A. 332. INDUSTRIAL ARTS AND HANDICRAFT FOR TEACHERS. One single and four double periods. *Staff.*

A course designed for leaders in popular arts and crafts. Thought will be given to the place and type of industrial arts suitable for adults, camp counselors, teachers, homemakers, and others interested in creative activities.

I.A. 340. MACHINE DRAFTING AND DESIGN. One single and four double periods. *Mr. Harrison.*

Advanced problems will be developed in drafting, such as shape description, auxiliaries, sections, layouts, isometrics, and perspective.

I.A. 510. PRINCIPLES OF INDUSTRIAL ARTS EDUCATION. *Mr. Harrison.*

A course which will include the history, principles, function, organization, and evaluation of industrial arts education.

I.A. 550. ORGANIZATION OF SUBJECT MATTER IN INDUSTRIAL ARTS. *Mr. Harrison.*

Necessary consideration will be given to the selection, organization, presentation, and interpretation of subject matter in industrial arts. Students will work out job plans, various instruction sheets, course content and plan curriculums. Various industrial arts activities will be analyzed and appraised.

I.A. 560. ADMINISTRATION OF INDUSTRIAL ARTS. *Mr. Harrison.*

Interpretation of industrial arts curricula in terms of school and community needs. Organization and reorganization of shop programs. Cost accounting of materials, equipment, supplies, and housing. Care and repair of tools and equipment. The duties of the industrial arts administration and supervisor. Shop planning and layouts.

I.A. 570. SPECIAL PROBLEMS IN INDUSTRIAL ARTS. *Mr. Harrison.*

Designed primarily for experienced industrial arts teachers who feel a need for improving their curriculum and teaching procedures. A student may broaden and intensify his training in a particular area of interest.

I.A. 580. SEMINAR IN INDUSTRIAL ARTS AND HANDICRAFTS. *Mr. Harrison.*

Advanced study in industrial arts and handcraft. Research and experimentation in selected areas of the industrial arts, such areas to be selected by the student in conference with the instructor.

D. Library Education.

L.E. 303. UTILIZATION OF LIBRARY MATERIALS. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

An introduction to the use of dictionaries, encyclopedias, indices, and similar reference books commonly found in the small library. Attention will be given to the use of the library as an information laboratory for the school or for the community. Practice problems in answering reference questions will be assigned.

L.E. 304. ORGANIZATION OF LIBRARY MATERIALS. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A course to acquaint the student with the fundamental principles of the organization of small libraries, with particular emphasis on the uses of printed catalogues and catalogue cards. Author entries, simple collation, subject headings, abridged Dewey Decimal Classification, and rules for filing will be included.

L.E. 305. ADMINISTRATION OF A SMALL LIBRARY. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A course to acquaint the student with overall relationships between the library and the institution of which it is a part. Problems of building, supplies, accounting, records and reports, personnel, discipline, and routines will be discussed.

L.E. 502. PRINCIPLES OF BOOK EVALUATION. Prerequisites: Education 335, 336, and two additional approved courses in Education. *Mrs. Broadhurst.*

An introduction to the principles of evaluating books in terms of the clientele of the library for which they are to be purchased, with special emphasis on the school library and the small public library. Problems in the use of reviewing and indexing publications will be used in acquainting students with methods of selecting books for purchase. The completion of special problems will be an added requirement of graduate students.

E. Health and Physical Education.

Service Courses

1-2. PHYSICAL EDUCATION. 10 hours.

Women. Three hours a week for six quarters. Physical Education Building, South Campus. *Physical Education Staff.*

Women students may select activities which best meet their special needs and interests, based upon their health, organic fitness and previous experience in physical education. The activities include adapted physical education, archery, badminton, basketball, bowling, fencing, fundamentals of movement, golf, hockey, life saving, recreational sports, soccer, softball, swimming, water safety instructors course, tennis, tumbling, volleyball.

Men. Two hours a week for six quarters. Stegeman Hall. *Physical Education Staff.*

Minimum physical fitness standards must be met during the freshman year as determined by physical fitness test. A swimming test will be administered at the start of the fall quarter. Activities include touch football, soccer, speedball, basketball, volleyball, softball, tumbling, apparatus, trampoline, weight training, tennis, badminton, handball, golf, track and field, bowling, and special classes for those students with disabilities who are in need of a limited program.

Professional Courses

PHYSICAL EDUCATION

1x-2x. PHYSICAL EDUCATION (Majors, men). Three hours a week for six quarters. (Laboratory period to be arranged). Stegeman Hall. *Physical Education Staff.*

These courses parallel Physical Education 1-2. Designed for Physical Education and Recreation Majors as introductory courses to Physical Education 180, 181, 182 and Physical Education 280, 281, 282.

180, 181, 182. (M). SKILL TECHNIQUES FOR MEN. 9 hours. (3 hours a quarter. Four periods a week required). Stegeman Hall. *Mr. Gabrielsen.*

Demonstrations and practice, including methods and techniques, in teaching such activities as apparatus, tumbling, stunts and pyramids, swimming and diving, life saving, water shows, golf and tennis.

280, 281, 282 (M). SKILL TECHNIQUES FOR MEN. 9 hours (3 hours each quarter. Four periods a week required). Stegeman Hall. *Mr. Bowen.*

Demonstration and practice in teaching methods and techniques in such activities as archery, badminton, gymnastics, wrestling, mass calisthenics, handball, and others.

280, 281, 282 (W). PHYSICAL EDUCATION ACTIVITIES. 9 hours (3 hours a quarter). (Laboratory period to be arranged). Prerequisite: One quarter in activity engaged in or permission of instructor. South Campus. *Miss Hanger, Miss Lewis,* and *Miss Russell.*

a. Theory and practice of soccer and speedball for girls.
b. Rhythmic analysis of physical education activities.
c. Teaching and coaching methods in tennis and archery. Advanced techniques and officiating methods. Organization of tournaments.

307. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. Prerequisite: Education 304. South Campus. *Miss Lewis* and *Miss Russell.*

Designed to help the teacher understand the place of Physical Education in Education and its contribution to the developing child. Experience is given in planning, teaching and evaluating physical educational activities.

311. FUNDAMENTAL MOTOR SKILLS. 3 hours. South Campus. *Miss Lewis.*

Methods and techniques in motor skills. Opportunities are provided for experiences conducting these physical education activities. Knowledge of resource materials.

315. AQUATICS. 3 hours. Prerequisite: Intermediate swimming or the consent of the instructor. South Campus. *Miss Lewis.*

Prepares students for the American Red Cross Instructor's Water Safety Course, for conducting swimming meet, and for presenting water shows. Recommended to students who are interested in camping activities.

357. INTERMEDIATE COMPOSITION. 3 hours. South Campus. *Miss Hanger.*

Study of fundamentals of composition and production. Individual and group problems.

360. KINESIOLOGY. Prerequisite: Zoology 312. South Campus. *Miss Keaster.*

Analysis and application of the physical and physiological principles involved in human motion. Physical laws governing the manipulation of objects in sports are studied.

361. THERAPEUTICS OF EXERCISE. Prerequisite: Physical Education 360. South Campus. *Miss Keaster.*

The techniques of appraisal and guidance of pupils with faulty body mechanics, orthopedic defects and other atypical conditions. Practice is given in the therapeutic use of exercise, massage, relaxation, and other physical modalities.

372. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. Memorial Hall. *Staff.*

A survey of the history and study of principles and trends in health, physical education and recreation, professional organizations, literature, and outstanding programs.

376. ORGANIZATION AND ADMINISTRATION. (Same as Education 336.3). North and South Campus. *Mr. Smith* and *Miss Russell.*

Deals with the organization and administration of physical education and recreation programs in the school. Planning the curriculum in physical education as a part of the total school program.

380, 381, 382 (W). TEAM SPORTS FOR WOMEN. 9 hours (3 hours a quarter). (Laboratory period to be arranged). Prerequisite: One quarter of each sport or consent of the instructor. South Campus. *Miss Lewis* and *Miss Russell.*

Teaching, coaching, and officiating methods in volleyball, basketball, and softball. Actual experience in teaching in class and officiating in intramural games. The Women's National Official Rating Examination will be given in volleyball and basketball.

380, 381, 382 (M). THEORY, COACHING METHODS AND OFFICIATING OF MAJOR SPORTS. 9 hours, (3 hours each quarter). (Laboratory period to be arranged). Prerequisite: Senior level standing. Stegeman Hall. *Coaching Staff.*

Theory and coaching techniques of major sports including football, basketball, baseball, and track. Various coaching systems, stressing their strong and weak points, the study of the various positions of the teams, as well as scheduling, transportation, diets, publicity, and other administrative problems are covered. Participation in planning of University Intramural Sports program, as well as officiating in the various sports, will be included.

383. EVALUATION AND MEASUREMENTS. 3 hours. Stegeman Hall. *Mr. Bowen.*

Methods in evaluating and testing physical education activities; procedures to be used in evaluating these tests and their results, including statistical analysis, are considered.

513. PHYSICAL EDUCATION IN THE SCHOOL PROGRAM. Prerequisite: Four courses in education. South Campus. *Mr. Gabrielsen, Mr. Smith,* and *Mrs. Soule.*

Designed to help teachers and administrators to evaluate and understand the place of physical education in education. The needs of students, both individuals and group, programs, equipment, facilities, and their relation to the school and the community are studied.

714-715. (WORKSHOP). PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. 5 to 10 hours. South Campus. *Mrs. Soule* and *Staff.*

A course of the workshop type dealing with the problems met in the development of a comprehensive program of health education, physical education and recreation in the school and school community. Special emphasis on problems identified by the student.

HEALTH EDUCATION

119. FIRST AID AND TREATMENT OF ATHLETIC INJURIES. 3 hours. Stegeman Hall. *Mr. Bowen.*

Problems and practical applications in first aid and the common injuries received in athletic competition.

344. PROBLEMS IN SCHOOL HEALTH EDUCATION. 3 hours. One double laboratory period. South Campus. *Miss Keaster.*

A course for the classroom teacher in the principles, materials, and methods of school health education. Teacher's role in securing a healthful environment, health appraisal, guidance, and instruction is studied.

354. THE EFFECTS OF ALCOHOL ON THE INDIVIDUAL, THE FAMILY, AND THE COMMUNITY. *The Staff.*

A comprehensive study of the many effects of the use of beverage alcohol on the individual, family, and community. The physiological, psychological, sociological, moral or spiritual, economic, legal, and health aspects will be investigated. Methods and tcehniques for teaching in this area will be discussed and developed.

370. SCHOOL HEALTH EDUCATION. South Campus. (Same as Education 335.3). *Mrs. Soule.*

Techniques in recognizing health needs and interests of people in relation to their environment. Pupil experiences and materials to meet these needs. Integrating classroom health activities with health resources in the community.

371. PERSONAL AND COMMUNITY HEALTH PROBLEMS. South Campus. *Mr. Bowen, Mr. Bowers,* and *Mrs. Soule.*

Current information in the areas of personal health, communicable diseases control, etc., as these apply to healthful living for individuals and groups.

511. HEALTH EDUCATION IN SCHOOL AND COMMUNITY. Prerequisite: Four courses in education. South Campus. *Mr. Bowers, Mr. Gabrielsen,* and *Mrs. Soule.*

Analysis of problems in health education as they pertain to children in school and out of school, and to adults; the place of the classroom teacher and the school administrator in health program. Opportunity for independent study.

577. SAFETY EDUCATION. Stegeman Hall. *Mr. Bowen.*

Deals with the problems, policies, principles, and methods involved in safety and accident prevention programs, as well as the programs of traffic safety and the teacher driver education and training in high schools. Individuals completing this course will be certified as driver education instructors by the State Department of Education. A charge of $2.50 will be paid by each enrollee to cover expenses.

714-715. (WORKSHOP). PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. 5 or 10 hours. *Mr. Gabrielsen. Mr. Smith,* and *Mrs. Soule.*

A course of the workshop type dealing with the problems met in the development of a comprehensive program of health education, physical education, and recreation in school and school community. Special emphasis on problems identified by the student.

RECREATION

118. SOCIAL RECREATION. 3 hours. Stegeman Hall. *Mr. Lawson.*

Methods and materials in social recreation. Experience will be given in group planning and conducting social activities. Some laboratory experiences will be required.

384. INTERPRETATION OF RECREATION. 3 hours. Stegeman Hall. *Mr. Gabrielsen.*

Designed to familiarize the students with the recreation profession and the philosophy of recreation. A survey is made of the entire field of recreation. A study of national organizations is included.

385. PROBLEMS IN RECREATION. 3 hours. Stegeman Hall or South Campus. *The Staff.*

Consideration of needs and problems in recreation in rural areas, industry, hospitals, and armed forces.

386. CAMP LEADERSHIP. 3 hours. Stegeman Hall and South Campus. *Miss Keirn* and *Mr. Lawson.*

Designed to give prospective camp counselors an understanding of the total camp program, duties and responsibilities of camp counselors. Techniques of camp leadership will be considered.

387. COMMUNITY RECREATION. 3 hours. Stegeman Hall. *Mr. Gabrielsen.*

Problems arising in organization, promotion and administration of community recreation programs. Observation of programs. The problems of coordinating the efforts of the schools, private agencies, and commercial recreation are studied.

512. PROBLEMS IN SCHOOL AND COMMUNITY RECREATION. Prerequisites: Four courses in education. Stegeman Hall or South Campus. *Mr. Gabrielsen, Mr. Smith,* and *Mrs. Soule.*

Problems of school and community recreation pertaining to philosophy, program, facilities and leadership. This course will consider the school camp program.

THE COLLEGE OF BUSINESS ADMINISTRATION

JAMES EDWARD GATES, B.S., Ph.D., *Dean*

ROBERT TAYLOR SEGREST, B.S.C., M.S.C., *Associate Dean*

ORGANIZATION AND PURPOSE

The College of Business Administration was authorized by the Board of Trustees in 1912 and began operations in 1913. For many years it was called the School of Commerce. Since 1926 the College has been a member of the national standard-setting organization, The American Association of Collegiate Schools of Business.

The primary aims of the College are to provide a foundation of general culture, to broaden the viewpoint and develop sound thinking and, at the same time, to supply practical training for sudents who wish to prepare for business and commercial careers. This training includes many courses designed to provide an understanding of the history and general principles that underlie the present economic organization of society, as well as courses devoted to special subjects of a technical character. Fields covered are accounting, aeronautical administration, general business, economics, finance, industrial relations, marketing, public administration, insurance, real estate, secretarial studies, economic statistics, and retailing.

The curriculum of the College, however, is by no means restricted to purely economics and business courses. The requirement of the American Association of Collegiate Schools of Business is that at least 40 per cent of the credit hours required for graduation must be in liberal or cultural courses. A list of courses of this character, so essential in the training of a well rounded college graduate, will be found under Degree Requirements. The degree of Bachelor of Business Administration is awarded upon completion of the four-year course.

EQUIPMENT

The College is housed in a modern, commodious, and attractive building, constructed for the joint occupancy of the College of Business Administration and the School of Journalism. In 1948 a large addition was made to the building and the interior of the other portion was remodeled to provide necessary facilities for the increasing enrollment.

The College of Business Administration is equipped with the various types of machines common in business: adding machines, bookkeeping machines, mimeograph equipment, and dictating machines. In addition, International Business Machines Corporation equipment is available for instructional purposes in the laboratories. The latest types of this punched card accounting machinery are included, such as sorters, punches, tabulators, and summary punches. Alphabetical punched card equipment has recently been added to the numeric machines.

BUSINESS PRACTICE

The College of Business Administration with the cooperation of certain business firms has arranged for a few carefully selected students to obtain actual experience in business while still pursuing work toward the degree of Bachelor of Business Administration. Such students, upon the recommendation of the professor in charge of the major concentration group, may, with the approval of the Dean of the College and the College Executive Committee, be permitted to enter a cooperating business establishment in Atlanta or other cities and spend a quarter in learning first hand something of the operation of the business. This arrangement is limited to selected students within 55 hours of graduation. A maximum of fifteen hours of elective credit will be given for the quarter. While absent from the University the students will be under supervision of their major professors. Grades for this work will depend upon the report by the head of the business as well as upon such written reports as may be required from the student.

Application for permission to register for business practice (Business Administration 340) must be made through the student's major professor during the quarter preceding the planned registration. Students approved for this privilege will be required to register in the usual way and pay the prescribed fees.

ORGANIZATIONS

The national honor society for students of schools of business, Beta Gamma Sigma fraternity, has a chapter in practically every member institution of the American Association of Collegiate Schools of Business. The Alpha chapter of Georgia was the sixth established of the fifty-six chapters now active. The purpose of this fraternity is to encourage and reward scholarship and achievement. Every year about ten per cent of the seniors are awarded the Beta Gamma Sigma key.

Business Administration students are eligible for election to The Honor Society of Phi Kappa Phi, and those who have a large proportion of their work in liberal arts subjects, including economics, are eligible for election to Phi Beta Kappa.

The College also has chapters of the three leading professional organizations for students of schools of business, the Alpha Kappa Psi, the Delta Sigma Pi, and the Phi Chi Theta fraternities. Delta Sigma Pi awards annually a key to the most distinguished Business Administration graduate of the year, while Phi Chi Theta awards a key to the most distinguished woman graduate, and Alpha Kappa Psi awards a gold key each year to the member of the senior class of the College of Business Administration who has the highest scholastic average for four years of college work, at least two years of which has been taken at the University of Georgia.

The Economics Society is an organization in which membership is open to all students enrolled in the College of Business Administration who have an average grade of "C" or better. Students enrolled in other colleges who are interested in economics are invited to become members.

BUREAU OF BUSINESS RESEARCH

The Bureau of Business Research was established in 1928 and is the agency in the College of Business Administration of the University's Research division.

The primary purpose of the Bureau is to promote the study, by faculty and staff, of business and economic conditions and problems, particularly as they relate to Georgia and Georgia business. Service to the State's business community and to the University's faculty and students is a secondary but highly important function that includes training in research techniques, maintenance of a reading room and other help in securing data, consultation on specific problems, contract studies, and dissemination of information.

The Bureau's monthly bulletin, *Georgia Business*, is available without charge to residents of Georgia. In addition to feature articles on business and economic subjects, some fifteen indicators of local activity in more than twenty Georgia cities are presented regularly. Estimates of sales in all 159 Georgia counties are also reported monthly. An annual review number is issued in February.

Annually the Bureau issues or supplements its *Georgia Statistical Abstract*, a compilation of basic data on the State's population, government, and business. Periodically the Bureau adds to the series of volumes making up the *Southeastern Resources Handbook*, a major and continuing study of the natural and man-made resources of ten Southeastern states.

Other current projects include projections to 1980 of Georgia's population, employment, and income; compilation of a directory of manufacturing executives in the state; and the development of state and local economic indexes.

EXECUTIVE DEVELOPMENT PROGRAM

Beginning in 1951 the College of Business Administration inaugurated a program in executive development, designed to provide training for executive positions, of the type not ordinarily available in individual companies. In the summer of 1953 there was begun the first "live-in" program, four weeks in duration. Executives nominated by their own companies receive intensive training, designed to supplement existing company plans for training on-the-job.

SCHOLARSHIPS AND LOAN FUNDS

The Atlanta Federal Savings Scholarship. Two awards of $500 each are provided annually by the Atlanta Federal Savings and Loan Association to graduates of Atlanta and Fulton County high schools. One award goes to an entering freshman and the other to a senior. Both awards are based on financial need and student record.

The Chemstrand Scholarship. An annual award of $500 is provided by the Chemstrand Corporation to a selected senior.

The Delta Air Lines Scholarship. An annual award of $300 is provided by Delta Air Lines to a selected junior majoring in aeronautical administration. It is available for both junior and senior years for the winner.

The Rayonier Scholarship. An annual award of $500 is provided by the Rayonier Corporation to a selected senior.

Loan funds are available for deserving students. Information on loan funds and scholarships is available from the Director of Placement and Student Aid.

GRADUATE STUDY

In the Graduate School of the University the degrees of Master of Business Administration and Master of Arts are offered.

The Master of Business Administration is a professional degree designed for students intending to enter directly into business. Requirements are flexible to meet the needs of graduates of liberal arts colleges as well as professional and technical schools. A program of four quarters of graduate work will be necessary for applicants holding the B.B.A. degree or its equivalent and from four to six quarters for applicants holding degrees in other fields. Neither a thesis nor a reading knowledge of a foreign language is required under this program. At least 15 hours of each student's program must be in courses numbered 800 and above.

Through special arrangement with the School of Journalism the degree of Master of Business Administration may be taken as a combination curriculum of the School of Journalism and the College of Business Administration, leading to the degree of A.B. in Journalism in four years, and the M.B.A. after an additional four quarters of study. This program is designed to aid those anticipating interpretative writing in economics and related fields, and also those who plan to work in the business of journalism. For details of this program see the bulletin of the School of Journalism.

Graduate training in research methods is provided by a program leading to the degree of Master of Arts. The requirements for the Master of Arts degree are the satisfactory completion of a program of study which consists of courses carrying a minimum credit value of 40 quarter hours plus the writing of an acceptable thesis. The courses taken must form a logical whole. Upon the option of the students' major department, a reading knowledge of French or German may be required of candidates for the degree. Another modern foreign language may be substituted for French or German upon certification by the major professor that the language proposed is more appropriate to the students' program. The minimum residence requirement for the degree Master of Arts is one academic year, or three quarters.

DEGREE REQUIREMENTS

A total of 187 quarter hours, exclusive of Physical Education 1-2 and Military Science 1-2 or Air Science 5-6, is required for the Bachelor of Business Administration degree. Physical Education 1-2 is required of all freshmen and sophomore students except veterans. Military Science 1-2 or Air Science 5-6 is required of all freshmen and sophomore male students except veterans. Business Administration 101-102-103 is required of all freshmen and Business Administration 395 is required of all seniors in the College.

TRANSFER STUDENTS

Students transferring from standard colleges and universities with junior standing will not be required to take the general courses such as History, English and others required in the freshman and sophomore years, provided that they have completed an equivalent number of hours in the divisions covered by these courses.

Students transferring from any of the junior colleges or other units of the University System to the College of Business Administration are given

full credit for all regular curriculum work completed with satisfactory grades. Any uncompleted required courses in the freshman and sophomore years must be taken.

Transfer students admitted for the Fall Quarter whose credits are received in time for evaluation by the Registrar before the beginning of the quarter, will receive a check-list showing completed curriculum requirements and the remaining courses necessary for the Bachelor of Business Administration degree.

FRESHMAN AND SOPHOMORE REQUIREMENTS

Freshman Adviser: Ryan L. Mura

Sophomore Adviser: Samuel J. Cobb

	Hours
Business Administration 101-102-103	3
English 101-102	10
Mathematics 100 or 101	5
Laboratory Science (See Item 4 below)	10
Social Studies or Foreign Language (See Item 5 below)	10
Political Science 101	5
History 111 or 112	5
English 121-122	10
Business Administration 108	4
Business Administration 109	4
Business Administration 110-111	10
Business Administration 151	5
Economics 105-106	10
Economics 133	5
Physical Education 1-2	0
Military Science 1-2 or Air Science 5-6 (for men)	0
Total freshman and sophomore academic hours	96

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Core Curriculum (Grades of C or better required—see Item 15 below)	30
Major (Grades of C or better required)	30
Arts and Sciences Senior Division Electives (See Item 18 below)	10
Business Administration 395	1
Electives	20
Total junior and senior requirements	91

Note: The candidate for the Bachelor of Business Administration degree is responsible for meeting the requirements as listed.

EXPLANATION OF ABOVE REQUIREMENTS

1. Business Administration 101-102-103, Orientation to Business 3
   Must be taken the freshman year. No student other than freshmen may receive degree credit for this course. Transfer students with sophomore and above standing will take 3 hours of electives instead of Business Administration 101-102-103.
2. English 101-102, Composition 10
   Average grade of C (73) or better required.
3. Mathematics 100, Algebra, or 101, Trigonometry 5
   Students who have insufficient high school preparation or who for other reasons are deficient in their Mathematics are required to take Mathematics 99, a remedial course in algebra, as a prerequisite.
4. Laboratory Science 10
   One double course to be selected from the following:
   - Botany 121-122
   - Chemistry 121-122
   - Geology 125-126
   - Physics 120-127 or 128
   - Zoology 125-126
5. Social Studies or Foreign Language 10
   Students who elect Social Studies should take two courses from the following:
   - Anthropology 102, Man and His Culture
   - Geography 101, World Human Geography
   - Philosophy 104, Introduction to Philosophy
   - Psychology 101, Introduction to Psychology
   - Social Science 104, Contemporary Georgia
   - Sociology 105, Introduction to Sociology

   Students who elect foreign language must take two courses in one language. A student continuing a language taken in high school will be placed in the appropriate course on the basis of placement tests.
6. Political Science 101, American Government 5
7. History 111 or 112, History of Western Civilization 5
8. English 121-122, Western World Literature 10
9. Business Administration 108, Business Communications 4
10. Business Administration 109, Business and Professional Speech 4
11. Business Administration 110-111, Principles of Accounting 10
12. Business Administration 151, Business Organization and Management 5
13. Economic 105-106, Economic Principles and Problems 10
14. Economics 133, Economic Development of the United States 5
15. Core Curriculum:
    - Economics 312, Elementary Economic Statistics 5
    - Economics 326, Money and Banking 5
    - Economics 330, Business Finance 5
    - Economics 360, Principles of Marketing 5
    - Economics 386, Labor Economics 5
    - Business Administration 370, Business Law 5
16. Major Concentration 30

17. Business Administration 395, Personal Adjustment to Business..... 1
Offered Fall Quarter for Seniors only.

18. Arts and Science Senior Division Electives 10
Students who have completed the required freshman-sophomore courses will qualify for any senior division courses in English or History. The following senior division courses require no prerequisites:
    Classical Culture 301, Greece
    Classical Culture 302, Rome
    Fine Arts 300, Music and the Visual Arts
    Geography 358, Economic Geography
    Philosophy 305, Ethics
    Philosophy 358, Modern Logic
    Philosophy 408, Philosophy of Religion
    Sociology 360, Contemporary Social Problems

19. Electives 20
May be selected from any school or college of the University, provided the course carries credit of three or more quarter hours. Students who take advanced Military or Air Science will receive 18 hours of elective credit.

Total Requirements 187
(Exclusive of Physical Education 1-2 and basic Military or Air Science).

The courses listed above fall into two groups: junior division courses (courses with a number less than 200) and senior division courses (courses numbered 200 or above). A junior division student is one who has less than 85 academic hours and a senior division student is one who has 85 or more academic hours. A student should complete the junior division requirements before registering for senior division courses and senior division students must give priority at registration to all uncompleted junior division requirements. Certain required junior division courses such as Accounting may not be offered during the Summer Quarter. However, students who postpone such courses will not be permitted to make substitutions.

Although the minimum number of hours required for graduation is 187, it does not necessarily mean that the obtaining of 187 hours of credit will insure one a degree. There are certain other specific requirements which must be satisfied in order to qualify for the degree.

1. Senior Division Requirements:
    (a) 60 hours of senior division courses after reaching senior division standing, and
    (b) 45 hours, after senior division standing, of senior division courses in the College of Business Administration, while in residence in the College of Business Administration.
    (c) 30 hours of senior division courses must be taken in residence during the 3 quarters immediately preceding graduation, and
    (d) the grade in each course in the core curriculum must be C or better.

2. Major Concentration Requirements:
    (a) No course taken before a student has obtained senior division standing can count on his major regardless of the course number, and

(b) all courses in the major concentration must be approved by the student's major professor or the dean, and

(c) The grade in each course used for the major must be C or above.

3. Residence Requirements:

(a) At least half of the courses constituting the major must be taken in residence, and

(b) A minimum of 45 hours of senior division courses must be taken in residence in the College of Business Administration.

4. Scholastic Requirements:

(a) An average of C with not more than 45 hours of D grades must be obtained.

5. Examination on the Constitutions:

(a) Examinations on the Constitution of the United States and that of the State of Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with these Constitutions.

6. Examination on United States and Georgia History:

(a) Examinations on the history of the United States and of Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history.

MAJOR CONCENTRATION GROUPS

ACCOUNTING

MR. HECKMAN, *Chairman*

Accounting knowledge is fundamental in business whether it be in retailing or wholesaling, manufacturing or selling. Internal control can be secured only through intelligent use of business statements and reports. The course in accounting is designed to give an understanding of the principles and practices in the control of business through records and reports, and likewise a knowledge of how to prepare these essential records and reports. Governmental regulations and taxation further emphasize the necessity of accounting knowledge.

Recommended courses for majors in accounting:	Hours
Business Administration 453, Accounting Theory, first course	5
Business Administration 454, Accounting Theory, second course	5
Business Administration 515, Income Taxation	5
Recommended courses for majors in private accounting:	
Business Administration 311, Introductory Cost Accounting	5
Business Administration 413, Advanced Cost Accounting	5
Business Administration 449, Analysis of Financial Statements	4
Business Administration 519, Advanced Taxation	5
Business Administration 555, Management Accounting	5
Business Administration 579, Functions of the Controller	4

The program in public accounting is designed to furnish adequate preparation for the public accountants examination to those students who plan to enter the professional field of public accounting. Public accounting includes the fields of auditing, system installations, and tax procedures. In order to complete preparation for the State CPA examination a fifth year of study devoted primarily to accounting subjects is recommended. The Georgia CPA

law requires three years of practical experience prior to the issuance of a certificate, one year of which is cancelled for those graduates who have majored in accounting.

Recommended courses for majors in public accounting:	Hours
Business Administration 311, Introductory Cost Accounting	5
Business Administration 315, Punched-Card Equipment	5
Business Administration 371, Business Law, second course	5
Business Administration 517, C.P.A. Review	5
Business Administration 518, Municipal Accounting	3
Business Administration 519, Advanced Taxation	5
Business Administration 520, Punched-Card Accounting	5
Business Administration 556, Accounting Problems	5
Business Administration 557, Consolidated Statements	5
Business Administration 572, Auditing Principles	5
Business Administration 573, Auditing Problems	5
Business Administration 581, Accounting Systems	4

AERONAUTICAL ADMINISTRATION

MR. NACHTRAB, *Chairman*

In view of the expanding development of air transportation, there is a growing demand for college graduates trained in management or administration of aircraft manufacturing or transportation industries and as airport and airline managers. In preparation for a career in this field, this major concentration group offers courses covering aerial navigation, meterology, aircraft and principles of flight and Civil Air Regulations as well as the business administration aspects of this industry. The student will also receive the same general training in business and economics as majors in other special groups.

Business Administration 320, Commercial Aviation	5
Business Administration 321, Aerial Navigation	5
Business Administration 322, Civil Air Regulations and Meteorology	5
Business Administration 323, Aircraft Powerplants	5
Business Administration 325, Aircraft and Theory of Flight	5
Business Administration 327, Airport Management and Operation	5
Economics 475, Economics of Transportation	5
Economics 585, Personnel Administration	5

ECONOMICS

MR. SMITH, *Chairman*

An understanding of the economic realities of today's world has come to be an essential for the effective management of both private and public enterprise. Leaders in both of these important areas must have an appreciation of the impact of their actions on the nation as a whole, and also an appreciation of the significance of general economic developments for the decisions that they make. Only through intelligent planning and coordination based upon an understanding of fundamental economic relationships can our nation adequately fulfill its responsibilities both at home and abroad. The program of training in economics is an outgrowth of this basic need.

	Hours
Economics 400, Early Economic Systems	5
Economics 406, Advanced Economic Theory	5
Economics 434, Public Finance	5

Economics 438, Business Cycles	3
Economics 439, Business Forecasting	3
Economics 437, Comparative Economic Systems	5
Economics 444, Government and Business	5
Economics 450, Monetary Policy	5
Economics 455, Contemporary Economic Problems	5
Economics 475, Economics of Transportation	5
Economics 480, International Trade and Finance	5
Economics 489, The Labor Movement	5
Economics 577, Public Utilities	5

FINANCE

MR. DINCE, *Acting Chairman*

The major in finance has been designed to give the student an intimate knowledge of the relative investment merits of the various classes of corporate securities and the nature of our complex banking and financial structure. Modern industry is characterized by the predominance of the corporate form of business enterprise and by the emphasis upon financial management. Careful study is essential for a proper understanding of the financial complexities of the present day corporations.

Training is provided to equip the student to enter occupations requiring a knowledge of the securities market, corporation finance, investment banking, trusts, estate building, building and loan associations, and investment companies. Financial problems of the individual are also stressed to enable him to do a better job of managing his money, to think clearly, and to move forward to financial independence.

	Hours
Economics 431, Investments	5
Economics 432, Fundamentals of Investment Banking	5
Economics 434, Public Finance	5
Economics 435, State and Local Public Finance	5
Economics 438, Business Cycles	3
Economics 439, Business Forecasting	3
Economics 440, Corporate Financial Policy	3
Economics 450, Monetary Policy	5
Economics 480, International Trade and Finance	5
Economics 488, Securities Market	5
Economics 533, Credits and Collections	5
Business Administration 449, Financial Statements	4

GENERAL BUSINESS

MR. DAVIDS, *Chairman*

The major in general business is designed for those students who wish to obtain a general rather than a specialized training in business administration. It is especially appropriate for those who will eventually become owners or managers of small business concerns. In this field emphasis is placed upon a comprehensive view of business as a whole rather than upon some one of the specialized functions in business administration. This gives the student a broader and more extensive approach to business problems than that which is afforded by intensive study in a specialized field.

The method of accomplishing this broader training is that of selecting certain basic courses from each of the specialized programs. This gives the

student an appreciation of the contribution of the specialized groups to the going business enterprise and shows how these specialized functions must be brought together and organized into a working system in order to operate effectively. The courses listed as a part of this major concentration provide useful training for the prospective businessman regardless of the type of business entered.

	Hours
Economics 334, Personal Finance	5
Economics 440, Corporate Financial Policy	3
Economics 487, The Commodity Exchange	5
Economics 488, Securities Market	5
Economics 490, Labor Legislation	5
Economics 533, Credits and Collections	5
Business Administration 352, Industrial Operations	5
Business Administration 371, Business Law, Second course	5
Business Administration 387, Life Insurance	5
Business Administration 388, Property Insurance	5
Business Administration 390, Real Estate Principles	5
Business Administration 515, Income Taxation	5
Business Administration 595, Administrative Practices	5

INDUSTRIAL RELATIONS AND PERSONNEL ADMINISTRATION

MR. SEGREST, *Chairman*

One of the biggest tasks confronting our economy today is the harmonious coordination of the efforts of many individual workers within industrial society. Achievement of more satisfactory working conditions, steadier employment, better adjustment of labor disputes, and resulting increases in productivity and real income for all, are vital both to the individual business unit and to society. Intelligent management of labor means both reduced costs for business and more efficient utilization of the human resources of our nation. It involves an understanding of the unions with which management deals, the nature and issues of collective bargaining, and the relationship between unorganized workers and management.

This program is not primarily directed toward the professional training of students interested in the fields of labor and personnel. The growth of the labor movement, the increase of public interest and control of industrial relations, and the strength of organized labor groups in our society make many of the problems of labor relations urgent matters of public policy. Specialization in this field is viewed as part of the equipment of the citizen as well as of the executive and only secondary as training for specialized employment.

	Hours
Economics 380, Industrial Sociology	5
Economics 442, Public Personnel Administration	5
Economics 444, Government and Business	5
Economics 489, The Labor Movement	5
Economics 490, Labor Legislation	5
Economics 491, Collective Bargaining	5
Economics 585, Personnel Administration	5
Business Administration 506, Social Insurance	5
Business Administration 582, Employment Methods: Testing	3
Business Administration 586, Job Evaluation	3
Business Administration 587, Work and Efficiency	3
Business Administration 592, Interviewing	2

Business Administration 593, Work Measurement	3
Business Administration 594, Merit Rating	2
Business Administration 595, Administrative Practices	5

INSURANCE

MR. CHARLES, *Chairman*

The program of study in the insurance concentration is designed to give the student a broad understanding of the place and functions of risk-bearing institutions in a private economy, the opportunity for professional advancement in the insurance field, and to give the future business executive some basic principles to guide him in setting up an adequate insurance program. Insurance has recently assumed the status of a profession and the concentration is designed to enable one to achieve professional competency as well as to become a more intelligent purchaser of insurance.

	Hours
Business Administration 371, Business Law, second course	5
Business Administration 385, Casualty Insurance	5
Business Administration 387, Life Insurance	5
Business Administration 388, Property Insurance	5
Business Administration 502, Property Insurance Problems	5
Business Administration 503, Casualty Insurance Problems	5
Business Administration 505, Insurance Programming and Planning	5
Business Administration 506, Social Insurance	5
Business Administration 509, Insurance Agency Management	5
Economics 431, Investments	5
Economics 440, Corporate Financial Policy	3
Economics 585, Personnel Administration	5
Any two Real Estate courses	10

MARKETING

MR. TROELSTON, *Chairman*

Concentrated study of marketing is two-fold in purpose; first, it trains students for positions in sales organizations, in market research, and in other fields related to distribution; and, second, it provides appraisal of the market system's effectiveness in meeting the broad demands of social welfare.

Emphasis has been placed in recent years upon the importance of market costs as compared with those of production. Large scale production, regional specialization in production, and the development of metropolitan areas far removed from sources of supply have necessitated a complex marketing machinery. An understanding of marketing problems for the successful operation of individual businesses is necessary so that methods may be improved and selling costs controlled.

	Hours
Economics 465, Marketing Research and Analysis	5
Economics 466, Economics of Consumption	5
Economics 475, Economics of Transportation	5
Economics 480, International Trade and Finance	5
Economics 487, The Commodity Exchange	5
Economics 488, Securities Market	5
Economics 591, Applied Statistics	5
Business Administration 560, Principles and Problems of Retailing	5

Business Administration 563, Advertising and Display	5
Business Administration 564, Sales Management	5
Business Administration 570, Wholesaling	5
Business Administration 571, Marketing Management	5
Business Administration 578, Purchasing	5

PUBLIC ADMINISTRATION

MR. GATES, *Chairman*

With expanding governmental social services and regulatory bodies, the need for personnel trained in public administration becomes greater. To provide this basic training, the Political Science Department and the College of Business Administration jointly offer a major concentration in public administration for those who wish to prepare to enter government service (local, state, or federal). It is recommended that those students who choose this major select, as their free electives, additional advanced courses in political science.

	Hours
Economics 434, Public Finance	5
Economics 435, State and Local Public Finance	5
Economics 437, Comparative Economic Systems	5
Economics 441, Principles of Public Administration	5
Economics 442, Public Personnel Administration	5
Economics 443, Public Financial Administration	5
Economics 444, Government and Business	5
Economics 490, Labor Legislation	5
Economics 492, American Administrative Law	5
Economics 577, Public Utilities	5
Economics 591, Applied Statistics	5

REAL ESTATE

Mr. BEATON, *Chairman*

The real estate industry embraces the development, financing and marketing of the land resources of the nation. Businessmen bring these resources into use as developers, as owners or managers of real estate enterprises, as brokers and traders, and as real estate financiers. College trained men are in demand for professional type service in property development, brokerage, appraising, property management, and mortgage lending. An understanding of real estate matters is essential to an executive in any type of business since he is likely to be faced, at some time, with problems of land development, site selection, financing, leasing, and land purchase.

	Hours
Business Administration 371, Business Law, second course	5
Business Administration 390, Real Estate Principles	5
Business Administration 391, Real Estate Brokerage	5
Business Administration 392, Real Estate Property Management	5
Business Administration 393, Real Estate Finance	5
Business Administration 503, Property Insurance Problems	5
Business Administration 504, Real Estate Appraisal	5
Business Administration 515, Income Taxation	5
Business Administration 519, Advanced Taxation	5
Economics 431, Investments	5

RETAILING

MR. HARRIS, *Chairman*

This major concentration is designed to train students in a field which is constantly demanding college graduates for executive positions. It provides a broad background of knowledge, attitudes and skills that are basic to a professional career in the retailing field. The curriculum includes a study of the major aspects of retail store organization and management, technique of sales promotion, research methods, and merchandising techniques. In addition the more specialized areas of advertising and display, textiles, and fashions are available for the interested student.

To make the retailing major more meaningful, professional courses should be paralleled by work experience whenever feasible. With this view in mind superior students within 55 hours of graduation will be encouraged to take Business Administration 340, Business Practice, so that they may enter a business establishment for the purpose of obtaining practical supervised retail experience.

	Hours
Business Administration 368, Principles of Selling	5
Business Administration 369, Fashion Promotion in Retailing	3
Business Administration 560, Principles and Problems in Retailing	5
Business Administration 561, Store Organization and Operation	3
Business Administration 562, Retail Merchandising	5
Business Administration 563, Advertising and Display	5
Business Administration 564, Sales Management	5
Business Administration 567, Retail Buying and Merchandise Control	5
Business Administration 568, Retail Merchandise Information	5
Business Administration 570, Wholesaling	5
Economics 465, Marketing Research and Analysis	5
Economics 466, Economics of Consumption	5
Economics 585, Personnel Administration	5
Journalism 575, Advertising Copy Writing	5
Journalism 578, Retail Advertising Copy and Sales Promotion	5

SECRETARIAL STUDIES

MR. CUFF, *Chairman*

The purpose of secretarial studies is to equip students with secretarial skills and a broad background to qualify them for positions in government, business, and the professions.

Students majoring in this field should take Business Administration 300 a-b-c, Shorthand, and Business Administration 303, 304, and 305, Typewriting, in residence during their junior year; Business Administration 306, Transcription, Business Administration 307, Office Management, and Business Administration 310, Secretarial Office Practice, in residence during their senior year. Majors who receive transfer credit in Shorthand, Typewriting, or Transcription must pass comprehensive tests during the last quarter before graduation as a requirement for the B.B.A. degree.

Secretarial studies majors who desire to teach commercial subjects should select their electives from among those subjects in the field of Education that will qualify them for teaching certificates.

	Hours
Business Administration 300 a-b-c, Shorthand	9
Business Administration 303-304-305, Typewriting	6
Business Administration 306, Transcription	3
Business Administration 307, Office Management	3
Business Administration 310, Secretarial Office Practice	5
Business Administration 315, Punched-card Equipment	5

ECONOMIC STATISTICS

MR. SEBBA, *Chairman*

The concentration group in statistics is jointly offered by the Mathematics Department and the College of Business Administration. It gives the student an opportunity to work toward a professional career in statistics by taking the courses listed below. Students preferring to prepare for statistical work in economics, finance, banking, insurance, marketing and advertising may, with permission of the chairman, substitute up to three courses in their special field of interest.

	Hours
Economics 421, Punched-Card Statistics	5
Economics 438, Business Cycles	3
Economics 439, Business Forecasting	3
Economics 591, Applied Statistics	5
Business Administration 315, Punched-Card Equipment	5
Mathematics 451, Mathematical Statistics	5
Mathematics 452, Mathematical Statistics	5

COMBINATION COURSE IN BUSINESS ADMINISTRATION AND LAW

Business training in general economics, accounting, corporate organization, finance, taxation, labor and other specialized fields has become important to the lawyer. Many law firms find their practice largely confined to acting as consultants to business executives.

It would be an ideal arrangement if prospective lawyers could pass first through a school of business before taking up the study of law. Since such a course normally requires seven years, involving a greater expenditure of time and money than students can usually afford, the College of Business Administration and the School of Law have a combined curriculum making possible completion of both courses in eighteen quarters.

Students taking this combination will complete the regular freshman and sophomore program of the College of Business Administration. In the junior year the student will complete the core curriculum (except Business Administration 370, Business Law), and will also take a major in one of the concentration groups, making a total of 96 hours in business and economic subjects. It is thus possible for him to get specialized training in a selected business administration field before entering the School of Law. During the senior year the student will substitute the first year of work in the School of Law for his business administration requirements.

The degree of Bachelor of Business Administration may then be conferred in the combined program at the end of the fourth year's work on those students who successfully complete all of the work of the first year in the School of Law (with minimum credit of 187 hours, exclusive of basic mili-

tary and physical education) and who are certified by the Dean of the School of Law as being eligible for admission to the second year in that School.

Three quarters in residence, including 45 hours in courses numbered 200 or above, in courses in the College of Business Administration, are required after admission to senior division standing.

CURRICULUM IN BUSINESS ADMINISTRATION AND LAW

Freshman and Sophomore Years

Same as required for the regular Bachelor of Business Administration degree. (See page 358).

Junior Year

	Hours
Economics 312, Elementary Economic Statistics	5
Economics 326, Money and Banking	5
Economics 330, Business Finance	5
Economics 360, Principles of Marketing	5
Economics 386, Labor Economics	5
Major	30
Total	55

Senior Year

Satisfactory completion of the first year of work in the School of Law and a minimum of 187 academic hours.

COMBINATION IN BUSINESS ADMINISTRATION AND DAIRY PLANT MANAGEMENT

Mr. Henderson, *Adviser*

In cooperation with the Dairy Department, College of Agriculture, the College of Business Administration offers a major in Dairy Plant Management for those students who wish to combine technical knowledge of the dairy manufacturing industry with business administration training. This is a four year special program leading to the degree of Bachelor of Business Administration. Students selecting this concentration should begin the special curriculum during the freshman year.

CURRICULUM IN BUSINESS ADMINISTRATION AND DAIRY PLANT MANAGEMENT

Mr. Henderson, *Adviser*

Freshman and Sophomore Years

	Hours
Business Administration 101-102-103	3
English 101-102	10
Mathematics 100 or 101	5
Physical Science 101	5
History 111 or 112	5
Political Science 101	5
Chemistry 121-122	10

English 121-122	10
Business Administration 108	4
Business Administration 109	4
Business Administration 110-111	10
Business Administration 151	5
Economics 105-106	10
Economics 133	5
Elective	5
Physical Education 1-2	0
Military or Air Science	0
Total freshman and sophomore academic hours	96

Junior and Senior Years

	Hours
Bacteriology 350	5
Economics 312	5
Economics 326	5
Economics 330	5
Economics 360	5
Economics 386	5
Business Administration 370	5
Dairy 350	5
Dairy 389	5
Dairy 394	5
Dairy 395	5
Dairy 396	5
Dairy 399	5
Business Administration 352	5
Business Administration 371	5
Business Administration 560	5
Business Administration 564	5
Business Administration 578	5
Business Administration 395	1
Total junior and senior academic hours	91

COMBINATION IN BUSINESS ADMINISTRATION AND INDUSTRIAL GEOGRAPHY

Mr. Prunty, *Adviser*

Fundamental to an understanding of the spatial organization of modern industry and transportation is a knowledge of the economic and geographic factors involved in the extraction of and the collection of raw materials and in the distribution of finished products. In answer to this need, the major concentration in industrial geography is offered jointly by the Department of Geography and Geology and the College of Business Administration. This program not only covers broad locational aspects related to sources of supply and major manufacturing concentrations, but also considers the elements of plant location and the development of specific enterprises. The courses listed are such that, in addition to providing a specialism, they will be of practical value to anyone engaged in activities concerned with the collection, processing and distribution of goods or services.

CURRICULUM IN BUSINESS ADMINISTRATION AND INDUSTRIAL GEOGRAPHY

Freshman and Sophomore Years

	Hours
Business Administration 101-102-103	3
English 101-102	10
Mathematics 100 or 101	5
Political Science 101	5
History 111 or 112	5
Botany 121-122 or Geology 125-126	10
English 121-122	10
Geography 121-122	10
Economics 105-106	10
Economics 133	5
Business Administration 108	4
Business Administration 109	4
Business Administration 110-111	10
Business Administration 151	5
Physical Education 1-2	0
Military or Air Science (for men)	0
Total freshman-sophomore academic hours	96

Junior and Senior Years

	Hours
Economics 312	5
Economics 326	5
Economics 330	5
Economics 360	5
Economics 386	5
Business Administration 370	5
Geography 101	5
Geography 350	5
Geography 358	5
Geography 420	5
Geography 436	5
Geography 459	5
Geography 460	5
Geography 461	5
Economics 465	5
Economics 475	5
Economics 477	5
Economics 480	5
Business Administration 395	1
Total junior-senior academic hours	91

MAJOR IN ECONOMICS IN THE BACHELOR OF ARTS DEGREE

Applicants for the Bachelor of Arts degree upon entering the Junior Class are required to select a major division, from which at least eight courses must be taken. One of the major divisions that may thus be elected is the division of Social Sciences, and Economics is one of the departments in this division. For A.B. students who desire to major in Economics the

concentration group in Economics is provided. From this group, with the approval of the major professor and the Dean of the College of Arts and Sciences, the major program will be arranged.

COURSES OF INSTRUCTION

(Commerce-Journalism Building, North Campus)

Unpredictable circumstances may necessitate the temporary withdrawal of some of the announced courses. The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five hours a week and carry five hours credit.

BUSINESS ADMINISTRATION

7. PERSONAL TYPING. No academic credit. (Five periods a week). *The Staff.*

An introductory course in typewriting designed to teach in a minimum of time typewriting for personal use.

101-102-103. ORIENTATION TO BUSINESS. 3 hours. (One period a week for three quarters). *Mr. Mura.*

Development of the attitudes and skills necessary for success in college; survey of the business world as a whole; study of the separate specialized areas and their educational and personal requirements. Required of all freshmen in the College of Business Administration. (See Item 1, page 359).

108. BUSINESS COMMUNICATIONS. 4 hours. Prerequisites: English 101-102. *The Staff.*

Qualities and principles of effective business letter writing; the role of business reports and their types; collecting, organizing, and interpreting data; written presentation; practice in writing business letters and reports.

109. BUSINESS AND PROFESSIONAL SPEECH. 4 hours. *Mr. Fear.*

Speech as a practical, manageable tool; improvement of individual proficiency in oral communication; speech practice in situations similar to those encountered regularly in business and industry.

110. PRINCIPLES OF ACCOUNTING. First Course. *The Staff.*

An introduction to the fundamental principles and practices of accounting; balance sheet and profit and loss statements; theory of debits and credits as applied to business transactions.

111. PRINCIPLES OF ACCOUNTING. Second Course. Prerequisite: Business Administration 110. *The Staff.*

Application of accounting principles to problems of business.

151. PRINCIPLES OF ORGANIZATION AND MANAGEMENT. *The Staff.*

An introductory study of organization theory; principles of communication, group dynamics, leadership; structure and internal functions of the typical business concerns; systems analysis and production management.

300 a-b-c. SHORTHAND. 9 hours. (Credit given only upon completion of 300c). Five periods a week for three quarters. *Mr. Cuff* and *the Staff.*

Study of the theory of Gregg shorthand, development of skill in reading and writing from printed shorthand, dictation of a general commercial nature, and transcribing into correct, acceptable form.

Students who have had Gregg shorthand in high school may register for Business Administration 300c by passing a test on the material covered in Business Administration 300 a-b. In such cases credit is given only for work done at the University.

303-304-305. TYPEWRITING. 6 hours. (Credit given only upon completion of 305). Five periods a week for three quarters. *Mr. Cuff* and *the Staff.*

Introductory and advanced typewriting; business letters and forms; tabulation and manuscript writing; stencil work and other typewriting problems of the business office.

Students who have had typewriting in high school may register for Bunsiness Administration 305 by passing a test on the material covered in Business Administration 303 and 304. In such cases credit is given only for work done at the University.

306. TRANSCRIPTION. 3 hours. Prerequisites: Business Administration 300c and 305. *Mr. Cuff* and *Staff.*

Advanced secretarial course to develop greater competency in recording dictation and transcribing.

307. OFFICE MANAGEMENT. 3 hours. *Mr. Cuff* and *Staff.*

Principles of scientific management and the responsibilities of office management; office equipment; office records and reports; filing; supervision; selection and training; office methods and procedures.

310. SECRETARIAL OFFICE PRACTICE. Prerequisites: Business Administration 300 a-b-c, 303, 304, and 305. (300c and 305 may be taken concurrently). *Mr. Cuff.*

Advanced secretarial course; secretarial traits and duties; filing; operation of dictating, duplicating, calculating, and other office appliances.

311. INTRODUCTORY COST ACCOUNTING. Prerequisite: Business Administration 111. *The Staff.*

Methods of ascertaining and distributing costs in manufacturing concerns emphasizing the securing of units costs under the order and process methods.

315. PUNCHED-CARD EQUIPMENT. *The Staff.*

Introductory course in the operation and use of punched-card equipment. Especially recommended for majors in accounting, secretarial studies, and statistics.

320. COMMERCIAL AVIATION. *Mr. Nachtrab.*

History and development of commercial aviation; aircraft types; airways and their aids; governmental regulations; general principles governing airline administration.

321. AERIAL NAVIGATION. *Mr. Nachtrab.*

Aerial maps and charts, course plotting, navigation methods, including pilotage, dead reckoning and radio, navigation instruments.

322. CIVIL AIR REGULATIONS AND METEOROLOGY. *Mr. Nachtrab.*

Civil air regulations, covering certification of pilots and airplanes, pilot regulations, flight rules, and air traffic rules; meteorology, covering theory of weather, weather maps, teletype sequence reports, forecasting, and flight planning.

323. AIRCRAFT POWER PLANTS. *Mr. Nachtrab.*

Types, construction, theory and operation of aircraft engines including study of electrical systems and attendant accessories such as magnetos, generators and batteries.

325. AIRCRAFT AND THEORY OF FLIGHT. *Mr. Nachtrab.*

Principles of aerodynamics and physical laws related to aircraft in flight; airfoils and forces acting upon them; wing types and characteristics; propellor theory and reaction propulsion; aircraft types and construction.

327. AIRPORT MANAGEMENT AND OPERATION. *Mr. Nachtrab.*

Problems of airport management, development; survey of civil air regulations governing and regulating airport operations; traffic control; city and county regulations, public relations and advertising.

340. BUSINESS PRACTICE. Maximum credit 15 elective hours. Prerequisite: Three years of college work leading to a B.B.A. degree.

A few superior students are permitted in their senior year to enter business establishments for the purpose of obtaining practical experience. The period of absence is limited to one quarter.

352. INDUSTRIAL OPERATIONS. Prerequisite: Business Administration 151. *Mr. Spencer.*

The general organization and management of an industrial plant. Process analysis, plant location, plant layout, purchasing, materials handling, quality control, maintenance and production control systems.

368. PRINCIPLES OF SELLING. Prerequisite: Economics 360. *Mr. Harris* and *Mr. Jensen.*

Principles of personal selling and their application to all fields of business and professional activity.

369. FASHION PROMOTION IN RETAILING. 3 hours. *Mr. Harris.*

Principles of planning, buying, promoting, and selling fashions; fashion cycle; fashion trends; design influence; fashion coordination; selling points; quality distinctions.

370. BUSINESS LAW. First course. (Not open to students taking the combined LL.B-B.B.A. degrees). *Mr. Charles.*

Contracts, sales contracts, uniform sales law, negotiable instruments, bailments, common and public carriers, and agency.

371. BUSINESS LAW. Second course. Prerequisite: Business Administration 370. (Not open to students taking the combined LL.B.-B.B.A. degrees). *Mr. Charles.*

Employer and employee; partnerships, formation, operation and dissolution; corporations; insurance, life, property, and automobile; real estate mortgages, landlord and tenant, wills, and bankruptcy.

385. CASUALTY INSURANCE. *Mr. Charles* and *Mr. Cobb.*

Insurance covering losses due to accidental damage or injury to property or persons; workmen's compensation; health and accident; automobile public liability; burglary; fidelity and dishonesty; personal liability; and other types of losses.

387. LIFE INSURANCE. *Mr. Charles* and *Mr. Cobb.*

The uses of life insurance, mortality tables, types of policies, reserves and policy values, organization of life insurance companies, group and industrial insurance, legal interpretation of policies, state supervision of life insurance.

388. PROPERTY INSURANCE. *Mr. Charles* and *Mr. Cobb.*

The functions of property insurance; standard policies; settlement of losses; marine and inland marine; automobile title; credit; other forms of property insurance.

390. REAL ESTATE PRINCIPLES. *Mr. Beaton.*

A consideration of the general principles of property utilization, the law dealing with ownership, transfer of title, and liens; the appraisal process, determinants of values, the real estate cycle, management and salesmanship, and regulatory legislation.

391. REAL ESTATE BROKERAGE. Prerequisite: Business Administration 390. *Mr. Beaton.*

Organizing and operating a real estate office, the management and sales problems of a real estate broker.

392. REAL ESTATE PROPERTY MANAGEMENT. Prerequisite: Business Administration 390. *Mr. Beaton.*

The principles and policies relating to the management of houses, stores and office buildings; collections; maintenance; services; records; tenant relationships.

393. REAL ESTATE FINANCE. Prerequisite: Business 390 or consent of the instructor. *Mr. Beaton.*

Institutions, techniques, and instruments of real estate finance; source of funds; loan contracts; principles of mortgage risk analysis; the role of government agencies in the mortgage lending field.

395. PERSONAL ADJUSTMENT TO BUSINESS. 1 hour. *Mr. Gates.* (Required of all candidates for the B.B.A. degree). Fall quarter only.

Methods of selecting and obtaining a suitable business position; proper techniques of making application, preparing for interview, and initial conduct on the job. Outside business men will give occasional talks on topics of vocational information.

413. ADVANCED COST ACCOUNTING. Prerequisite: Business Administration 311. *The Staff.*

A detailed study of cost accounting theories and their application to standard cost systems, replacements, and budgets.

449. ANALYSIS OF FINANCIAL STATEMENTS. 4 hours. Prerequisite: Business Administration 111. *The Staff.*

Techniques of analysis of balance sheets and statements of profits and loss, and the interpretation of findings; statements of various industries and utilities with interpretations based upon a knowledge of the particular industry.

453. ACCOUNTING THEORY. First Course. Prerequisite: Business Administration 311. *The Staff.*

Development and importance of accounting theories; application to problems incident to partnership and corporation formation, operation and liquidation.

454. ACCOUNTING THEORY. Second course. Prerequisite: Business Administration 311. *The Staff.*

A continuation of Business Administration 453. Application of the theories of valuation to normal financial statements and interpretations of these statements.

502. CASUALTY INSURANCE PROBLEMS. Prerequisite: Business Administration 385. *Mr. Charles.*

Advanced study of all types of casualty insurance; automobile, professional liability, products liability, and others.

503. PROPERTY INSURANCE PROBLEMS. Prerequisite: Business Administration 388. *Mr. Charles* and *Mr. Cobb.*

Practical application of property insurance policies to specific insurance problems; survey and insurance counseling for complex problems.

504. REAL ESTATE APPRAISAL. Prerequisite: Business Administration 390 or consent of the instructor. *Mr. Beaton.*

Technique and art of appraising land and buildings; cost, income, and market approach to valuation; case studies and field trips.

505. INSURANCE PLANNING AND PROGRAMMING. *Mr. Charles* and *Mr. Cobb.*

Private life insurance programs correlated to social security or other group coverages; retirement programs.

506. SOCIAL INSURANCE. *Mr. Charles* and *Mr. Cobb.*

Social security; public retirement systems; group retirement plans of private business.

507. INSURANCE AGENCY MANAGEMENT. Prerequisite: Business Administration 387 or 388. *Mr. Charles.*

Status of the insurance agency; management; aids from the head office; hiring and training sub-agents; sales policies; promotion; sources of contracts; duties to the principal in claims settlements; commissions; records.

515. INCOME TAXATION. Prerequisite: Business Administration 111. *The Staff.*

Interpretation of federal and state income tax laws with practice material requiring application of these laws to the returns of individuals, partnerships, and fiduciaries.

517. C.P.A. REVIEW. Prerequisite: Business Administration 557. *The Staff.*

General review of all accounting courses preparatory to the state C.P.A. examinations. Open only to students planning to take the C.P.A. examination.

518. MUNICIPAL ACCOUNTING. 3 hours. Prerequisite: Business Administration 111. *The Staff.*

Accounting problems and procedures pertaining to state and local governments and their institutions; governmental classification of receipts and expenditures; preparation of reports; budgeting and operation of fund accounts.

519. ADVANCED TAXATION. Prerequisite: Business Administration 515. *Mr. Heckman.*

Continuation of Business Administration 515 with emphasis upon corporation income tax laws, social security taxes, gift taxes, and estate taxes.

520. PUNCHED-CARD ACCOUNTING. Prerequisite: Business Administration 111 and 315. *The Staff.*

Application of punched-card techniques to specialized accounting problems of commerce and industry, such as billing, payrolls, cost analysis, inventory control, sales analysis, etc.

555. MANAGEMENT ACCOUNTING. Prerequisites: Business Administration 453 and 454. *Mr. Heckman.*

The uses of accounting data by management in planning, budgeting, and forecasting.

556. ACCOUNTING PROBLEMS. Prerequisite: Business Administration 311. *The Staff.*

Application of accounting theory to specialized problems of industry, such as consignments, insurance, receiverships, and estates; application of funds.

557. CONSOLIDATED STATEMENTS. Prerequisite: Business Administration 311. *The Staff.*

Development of special accounting problems incident to corporate organizations in the preparation of consolidated statements, consolidations, and mergers.

560. PRINCIPLES AND PROBLEMS IN RETAILING. Prerequisite: Economics 360. *Mr. Harris* and *Mr. Endsley.*

A survey of the retailing field; opportunities; failures; remedies; introduction to the merchandising function; advertising; management; markup; buyer-seller relationship.

561. STORE ORGANIZATION AND OPERATION. 3 hours. Prerequisite: Business Administration 560. *Mr. Harris.*

Organization of store management; trends; locations; layout; receiving and delivery; complaints; credits; maintenance personnel and miscellaneous operating problems.

562. RETAIL MERCHANDISING. Prerequisite: Business Administration 560. *Mr. Harris* and *Mr. Endsley.*

Factors governing profitable management inventory; merchandising techniques; analysis of profit elements; computation; sales and mark-down planning; stock control.

563. ADVERTISING AND DISPLAY. Prerequisite: Economics 360. *Mr. Harris* and *Mr. Endsley.*

Advertising procedures; organization of publicity departments; research media; internal sales promotion; campaigns display techniques.

564. SALES MANAGEMENT. Prerequisite: Economics 360. *Mr. Harris* and *Mr. Troelston.*

Problems and cases of manufacturers and dealers in the sale of consumer and industrial goods; selection, training, organizing, and directing salesmen.

567. RETAIL BUYING AND MERCHANDISE CONTROL. Prerequisite: Business Administration 560. *Mr. Harris* and *Mr. Endsley.*

Retail buying as a career; model stocks and buying plans; resources and markets; stock control; inventory price lines; budgeting and planning.

568. (HOME ECONOMICS) RETAIL MERCHANDISE INFORMATION. Prerequisite: Economics 360 or Home Economics 321 and 363. *The Staff.*

Natural fibers and synthetics; textile identification; fabric finishes; appropriate fabrics; plastics; leather; wood, terminology and trade names.

570. WHOLESALING. Prerequisites: Economics 360. *Mr. Troelston* and *the Staff.*

Types and classes of wholesale institutions; organization and management with emphasis on selected product groups and trade areas.

571. MARKETING MANAGEMENT. Prerequisite: Economics 360. *Mr. Troelston.*

Management of marketing functions in their relations to one another and to the environment of the firm.

572. AUDITING PRINCIPLES. Prerequisite: Business Administration 454. *The Staff.*

Principles governing audits and audit procedures; qualifications and responsibilities of the public accountant.

573. AUDITING PROBLEMS. Prerequisite: Business Administration 575. *The Staff.*

Application of auditing theories and principles to audit problems with emphasis upon separation of audit working papers and reports.

578. PURCHASING. Prerequisites: Economics 360. *Mr. Troelston* and *the Staff.*

Principles and practices used by manufacturers and other types of business concerns in the purchasing of equipment, raw materials, parts, and supplies.

579. FUNCTIONS OF THE CONTROLLER. 4 hours. Prerequisite: Business Administration 311. *The Staff.*

Principles and functions of the controller and his office; forecasting; budget preparation; variances and allocation of responsibility; application of principles of management psychology to remedying weaknesses.

581. ACCOUNTING SYSTEMS. 4 hours. Prerequisite: Business Administration 454. *The Staff.*

Accounting systems used in various businesses; principles of internal check; organization and installation of an accounting system.

582. (PSYCHOLOGY) EMPLOYMENT METHODS: TESTING. 3 hours. Prerequisite: Economics 312 or Mathematics 356. *Mr. Gray.*

Tests and interpretation of test scores in reference to specific employment situations; values and limitations of tests; test validation in new situations.

586. (PSYCHOLOGY) JOB EVALUATION. 3 hours. Prerequisite: Economics 312 or Mathematics 356. *Mr. Gray.*

Various methods of job analysis and job evaluation; advantages and disadvantages of the various systems in relation to the type of work situations.

587. (PSYCHOLOGY) WORK AND EFFICIENCY. 3 hours. Prerequisite: Economics 312 or Mathematics 356. *Mr. Gray.*

Human aptitudes in relation to work and equipment design; lighting, noise, ventilation, motor activities, body orientation, machine controls, etc. in relation to human limitations.

592. EMPLOYMENT METHODS: INTERVIEWING. 2 hours. Prerequisite: Economics 312 or Mathematics 356. *Mr. Gray.*

Employment interviewing and practice in both interviewing and being interviewed; limitations of interviewing procedure.

593. WORK MEASUREMENT. 3 hours. Prerequisite: Economics 312 or Mathematics 356. *Mr. Gray.*

Methods of measuring work; factors which affect the duration of work; principles of work methods and job layouts.

594. MERIT RATING. 2 hours. Prerequisite: Economics 312 or Mathematics 356. *Mr. Gray.*

Ways of determining the worth of employees on jobs where quantitative measurement is impossible; methods of determining traits for rating, of weighting traits, and of rating traits.

595. ADMINISTRATIVE PRACTICES. *Mr. Smith.*

Individual and group behavior in organizations; nature and crucial importance of communications, employee motivations, and group dynamics; development of greater effectiveness in the business organization.

ECONOMICS

105. PRINCIPLES OF ECONOMICS. *The Staff.*

Description and analysis of the economic organization of modern society with a brief introduction to the theory and value of distribution.

This course is required of all students in the College of Business Administration and A.B. majors in Economics. It is elective as a social science for all other students and may be taken without Economics 106.

106. PROBLEMS OF ECONOMICS. Prerequisite: Economics 105. *The Staff.*

Economic problems based upon the principles studied in Economics 105.

This course is required of all students in the College of Business Administration and A.B. majors in Economics.

These two courses (105 and 106) are prerequisite to all advanced courses in economics and business administration, except by special permission of the instructor.

133. ECONOMIC DEVELOPMENT OF THE UNITED STATES. *Mr. Smith* and *the Staff.*

American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

312. ELEMENTARY ECONOMIC STATISTICS. *Mr. Sebba* and *the Staff.*

Introduction to the presentation and analysis of quantitative economic data; statistical sources; table reading; chart making; introduction to index numbers and time series analysis.

326. MONEY AND BANKING. *The Staff.*

Money in the economic organization; monetary theory; methods of stabilizing the price level; theories of bank deposits; discount policy and the interest rate of central banks; regulation of credit.

330. BUSINESS FINANCE. *The Staff.*

Financial promotion and organization of business firm; problems of financial administration; failures; financial rehabilitation.

334. PERSONAL FINANCE. *The Staff.*

Principles and practices involved in buying on credit; borrowing money, saving money, buying securities, insurance, annuities, real estate; problems of taxation and wills.

358. (GEOGRAPHY) ECONOMIC GEOGRAPHY. *Mr. Prunty.*

Relation of geographic factors to economic conditions in determining the nature and location of the several productive occupants; distribution of the output.

360. PRINCIPLES OF MARKETING. *The Staff.*

Principles and methods involved in the movement of goods and services from producers to consumers.

380. (SOCIOLOGY) INDUSTRIAL SOCIOLOGY. Prerequisite: Economics 105 or Sociology 105. *Mr. Bowers* and *Mr. Payne.*

Human relations in the industrial setting; the relationship of growing, operating, or declining industrialization to the community and the larger society.

386. LABOR ECONOMICS. *The Staff.*

Survey of labor organizations, wages, hours, unemployment, labor legislation, and current developments in labor.

400. (ANTHROPOLOGY) EARLY ECONOMIC SYSTEMS. Prerequisites: Anthropology 102 and Economics 105. *Mr. Kelly.*

Economic life of primitive peoples; concepts and principles of classical economics, developed in Western civilization, are studied in the light of practices and thought among primitive groups in Asia, Africa, and the South Pacific.

406. ADVANCED ECONOMIC THEORY. *Mr. Beadles.*

Application of theoretical tools to value, distribution, money, business fluctuations, and the relationships between government and business.

409. (SOCIOLOGY) SOCIAL CHANGE. Prerequisite: Economics 105 or Sociology 105. *Mr. Bowers.*

Nature and theories of social change; causes and types of social change; cultural lag theory; social effects of inventions; adjustments of contemporary social institutions to technological change; impact of future technology on society.

421. PUNCHED-CARD STATISTICS. Prerequisites: Business Administration 315 and an introductory course in statistics. *The Staff.*

Use of punched-card machines in the treatment of numerical data; preparation of statistical surveys in a form suitable for machine use in the processing of the data; use of tables in the form of pre-punched cards.

431. INVESTMENTS. Prerequisite: Economics 326. *Mr. Dince.*

Elements of an "ideal" investment; examination and testing of specific investment securities.

432. FUNDAMENTALS OF INVESTMENT BANKING. Prerequisite: Economics 326. *Mr. Dince.*

Economics of investment banking; study of the economic and financial factors for appraising securities.

433. (SOCIOLOGY) POPULATION THEORY AND PROBLEMS. Prerequisite: Economics 105 or Sociology 105. *Mr. Belcher.*

Theory and dynamics of population growth; population pressure; migration; composition; differential fertility; theories of the quality and optimum population; economic and social aspects of our population.

434. (POLITICAL SCIENCE) PUBLIC FINANCE. *Mr. Ellis.*

A general consideration of American public expenditures, revenues, and fiscal administration.

435. (POLITICAL SCIENCE) STATE AND LOCAL PUBLIC FINANCE. Prerequisite: Economics 434. *The Staff.*

Revenues, expenditures, and fiscal administration of Georgia and its political subdivisions; fiscal comparisons of Georgia with other states; and an analysis of intergovernmental tax relationships.

437. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Wood.*

Analysis and appraisal of the theories underlying economic systems; proposed and existing schemes with respect to the maintenance of full employment, distribution of income, and encouragement of progress.

438. BUSINESS CYCLES. 3 hours. Prerequisite: Economics 312. *Mr. Sebba.*

Economic and social significance of business fluctuations; causes of business cycles; measures for controlling cycles.

439. BUSINESS FORECASTING. 3 hours. Prerequisite: Economics 438. *Mr. Sebba.*

Possibilities of business forecasting; methods and theories of forecasting.

440. CORPORATE FINANCIAL POLICY. 3 hours. Prerequisite: Economics 330. *Mr. Dince* and *the Staff.*

Analysis of financial problems and policies of corporations.

441. (POLITICAL SCIENCE) PRINCIPLES OF PUBLIC ADMINISTRATION. *Mr. Hughes.*

General principles and problems of administrative organization, relationships and controls in the United States; personnel, financial, administrative law; the growth and significance of administrative legislation and adjudication; influence of political and social beliefs, legislatures and pressure groups.

442. (POLITICAL SCIENCE) PUBLIC PERSONNEL ADMINISTRATION. *Mr. Hughes.*

Procedures, policies, and problems of governmental personnel administration; field trips and field studies of governmental agencies give the student firsthand knowledge of governmental personnel administration.

443. (POLITICAL SCIENCE) PUBLIC FINANCIAL ADMINISTRATION. *Mr. Hughes.*

Activities involved in the collection, custody, and expenditure of public revenue; the assessment and collection of taxes; public borrowing and debt administration; preparation and enactment of the budget; financial accountability and the audit.

444. (POLITICAL SCIENCE) GOVERNMENT AND BUSINESS. *Mr. Smith.*
Economic aspects of business regulation by the government; regulatory developments and methods in the United States; loans and subsidies; fact-finding agencies; government-owned corporations.

450. MONETARY POLICY. Prerequisite: Economics 326. *Mr. Davids.*
Advanced treatment of problems introduced in Economics 326.

455. CONTEMPORARY ECONOMIC PROBLEMS. *Mr. Wood.*
Application of economic theory to certain problems of contemporary economic life, such as monopoly, business cycles, tariffs, inflationary influences, industrial conflict, etc.

465. MARKETING RESEARCH AND ANALYSIS. Prerequisite: Economics 360. *Mr. Troelston.*
Scientific method in the construction of several marketing research studies; the solution of specific distribution problems; qualitative market analyses; market trends; data collection, tabulation, and interpretation.

466. ECONOMICS OF CONSUMPTION. *Mr. Troelston.*
Economics of the consumer market; the process of consumption; position and responsibilities of the consumer; desirable controls of consumption.

475. ECONOMICS OF TRANSPORTATION. *Mr. Smith.*
Study of the economic principles of transportation with special emphasis on the history and regulation of railroads.
Majors in Aeronautical Administration will be required to complete additional assignments in air transportation.

480. INTERNATIONAL TRADE AND FINANCE. *Mr. Dince.*
Economic importance and problems of international trade; exchange rates and monetary standards; tariffs and other trade barriers; debts; the position of international trade in the post-war world.

487. THE COMMODITY EXCHANGE. Prerequisite: Economics 360. Mr. *Troelston.*
Development of the exchange; organization and general operation; commodities commonly traded; hedging; values; governmental regulations and controls.

488. THE SECURITIES MARKET. *The Staff.*
Organization and functions of the New York Stock Exchange; types of transactions; types of traders; brokerage houses; speculation; relation of business cycles to stock prices; forecasting.

489. THE LABOR MOVEMENT. Prerequisite: Economics 386. *Mr. Segrest.*
Historical background of modern industrial relations; economic, social, and political forces contributing to the current problems in labor economics.

490. LABOR LEGISLATION. Prerequisite: Economics 386. *Mr. Segrest.*
State and federal legislation in the field of industrial relations.

491. COLLECTIVE BARGAINING. Prerequisite: Economics 386. *Mr. Wood.*
Historical and legal framework of the bargaining process; structure of collective bargaining, including bargaining unit, participants, negation; basic issues and major problems; economic implications of collective bargaining.

492. (POLITICAL SCIENCE) AMERICAN ADMINISTRATIVE LAW. *Mr. Saye.*
Legal principles and practical doctrines involved in work of administrative tribunals (the Interstate Commerce Commission, Federal Trade Commission, etc.) vested with quasi-legislative or quasi-judicial powers, or both.

494. EUROPEAN ECONOMIC HISTORY. *The Staff.*
Development of the economic aspects of civilization in medieval and modern times; evolution of economic institutions; historical background of present economic problems.

533. CREDITS AND COLLECTIONS. Prerequisite: Economics 330. *Mr. Wright.*
An analysis of the principles underlying the extension of credit to finance the transfer of goods and services.

577. PUBLIC UTILITIES. *Mr. Smith.*
Development, characteristics, rights and duties of public utilities; problem of regulation and rates; service; securities; holding companies in the electric utilities; activities of the Federal government in the power field.

585. PERSONNEL ADMINISTRATION. Prerequisites: Psychology 101 and Economics 386. *The Staff.*
Principles and practices in the field of the administration of human relations in industry; scientific techniques and devices in the development of a well-rounded personnel program.

591. APPLIED ECONOMIC STATISTICS. Prerequisite: Economics 312 or Mathematics 356. *Mr. Sebba.*

Various statistical methods and techniques applied to economic fields such as marketing, advertising, labor management, production, banking, investments.

GRADUATE COURSES

(Students interested in graduate work in the College of Business Administration should write to the Graduate School, University of Georgia, for a complete list of graduate offerings. The courses listed below are available for graduate students only. Courses numbered in the 400 and 500 series are offered jointly to graduate and undergraduate students).

BUSINESS ADMINISTRATION 775. MANAGEMENT OF BUSINESS RESEARCH PROGRAMS. *Mr. Gill.*

Organization and financial management of business research programs as enterprises; by size, by function, and by relative position in the field.

BUSINESS ADMINISTRATION 790. PROBLEMS IN REAL ESTATE. *Mr. Beaton.*

A critical consideration of currently important topics in the field of real estate; assigned research projects.

BUSINESS ADMINISTRATION 854. ACCOUNTING THEORY. *Mr. Heckman.*

History and development of accounting theory with special emphasis on the new principles being advocated at the present time; the influence of legislation on accounting theory.

ECONOMICS 760. SEMINAR IN MARKETING AND SALES ADMINISTRATION. *Mr. Troelston.*

Sales and marketing problems with emphasis upon current developments in wholesale and retail agencies. Permission of the instructor required.

ECONOMICS 792. APPLIED BUSINESS RESEARCH. *Mr. Gill.*

Applications of business research results in the determination of policy and in the planning of operation of business enterprises.

ECONOMICS 807. THE HISTORY OF ECONOMIC THOUGHT. *Mr. Smith.*

The evolution of the important principles of economics with emphasis on the history of the theories of value and distribution. Permission of the instructor required.

ECONOMICS 884. SEMINAR IN GOVERNMENT AND BUSINESS. *Mr. Smith.*

Current issues in the field of governments' relation to business with particular emphasis on problems associated with monopoly and competition.

ECONOMICS 850. RESEARCH IN MOENY AND BANKING. *Mr. Davids.*

Individual research in money and banking. Permission of the instructor required.

ECONOMICS 886. PROBLEMS IN INDUSTRIAL RELATIONS. *Mr. Segrest.*

Current problems in industrial relations with particular emphasis on the current status of unionism in the United States in terms of the effects of union organization, policies, and methods upon employer-employee relations.

ECONOMICS 890. INDEX NUMBERS. *Mr. Sebba.*

Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

ECONOMICS 891. RESEARCH IN APPLIED ECONOMIC STATISTICS. *Mr. Sebba.*

Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

ECONOMICS 892. TIME SERIES ANALYSIS. *Mr. Sebba.*

Statistical times series analysis and its application to economic analysis.

ECONOMICS 893. ECONOMICS SEMINAR. *The Staff.*

A research problem in the field of major concentration under personal supervision of the major professor. Permission of the instructor required.

ECONOMICS 894. ECONOMICS SEMINAR. *The Staff.*

A continuation of Economics 893.

THE HENRY W. GRADY SCHOOL OF JOURNALISM

John Eldridge Drewry, A.B., B.J., A.M., *Dean*

GENERAL INFORMATION

Journalism, in terms of career opportunities and as taught in the Grady School, is a broad, challenging, remunerative, personally satisfying, and socially useful field.

There was a time when to many persons the word *journalism* meant only newspaper work, perhaps reporting. Important as is the newspaper, and essential to the welfare of a democracy as is accurate and truthful reporting, journalism embraces today a great deal more than the daily and weekly press.

Journalism, in the broad sense, includes metropolitan dailies, small town dailies and weeklies, press associations and syndicates, radio and television, employee publications and trade journals, general magazines, various aspects of book publishing, advertising and public relations, much of the production and promotion work in motion pictures and the theatre, and editorial, instructional, and research work for schools, colleges, and various social agencies—the entire communications field.

Many executives and leaders in various walks of private and public life have had newspaper and other journalistic experience and have testified to the general educational value of such work. Journalism, just as the law, is both a profession within itself and an excellent preparation for dealing with the multifarious problems of life.

Just as the term *journalism* once was interpreted to mean only the newspaper, so the expression *education in journalism* has been thought by some to be merely vocational preparation for newspaper work. Actually, the curriculum leading to the degree of Bachelor of Arts in Journalism is not narrowly vocational or technical, but is designed to combine the essential elements of a liberal education and of professional training, both of which are useful and desirable in journalistic work. The requirements of the journalism degree, based upon a four-year course, include not only professional and technical courses in all phases of journalism, but the basic courses in rhetoric, English and American literature, history, political science, economics, sociology, and other liberal arts subjects.

SUPPLEMENTARY MAJORS AND CHOICE OF SEQUENCES

The A.B. in Journalism curriculum, moreover, by requiring less science and language than the traditional A.B. degree, is sufficiently flexible to permit the student to take a supplementary major in such subjects as English, history, and psychology, in addition to that in journalism. Thus, for example, a student who wishes to be prepared to teach and supervise school publications and publicity may take the required courses in education in connection with the journalism degree. In the same way, a student

may combine journalism with art, English, history, economics, or other related subjects in which he is interested.

A candidate for the A.B. in Journalism degree has a choice among six sequences: *News-Editorial, Radio-Television-Journalism, Advertising-Public Relations-Business, Journalistic-Literary Appreciation, Journalistic Secretarial,* and *Home Economics-Journalism.* A student ordinarily does not make a selection among the sequences until the beginning of his junior year, or after he has had orientation courses and counseling in the various phases of journalism.

JOURNALISM HAS MULTIPLE APPEALS

In addition to those planning careers in some phase of journalism, courses in the School of Journalism are chosen by several other groups, such as the following:

(1) Pre-Divinity Students. Because of the value of a knowledge of the communications field in their later religious duties, an increasing number of young men and women are taking journalism as pre-Divinity School preparation. In this way, they get not only a liberal arts background, but also the techniques and skills of journalism which are useful to the religious worker.

(2) Those who are interested in writing and who see in journalism courses an opportunity to develop ability in observation, clear thinking, accuracy, and effective expression.

(3) Those who recognize the cultural benefits of certain courses, such as the history of journalism, contemporary American magazines, and literary criticism. These students feel that work in journalism, including the reporting of lectures and addresses, interviewing visiting celebrities, and doing the research necessary to the writing of special articles or editorials, vitalizes and increases the appeal of their other liberal arts subjects.

(4) Those students who are interested in journalism as a social science. These young people, realizing that the press and radio-tv, along with the schools and churches,, are a great social agency which reflects and in a measure directs civilization's evolving processes, choose certain courses in the School of Journalism just as they would choose those in sociology or government.

(5) Those students who see the practical usefulness of a knowledge of journalism in their after-college days. All the students in the School of Forestry, for example, are required to have one course in journalism and one in public speaking on the theory that after their graduation both subjects will be useful to them. In the same way, home economics, business administration, pharmacy, and pre-law students often elect courses in journalism.

(6) Those who appreciate the fact that the consumers of journalism will always far outnumber the producers and that a liberal education should include an understanding of newspapers, magazines, radio-tv, and contemporary books, which will constitute an important part of their continuing education in after-college days.

The relationship of a free press to the democratic form of government, and the increasing references to this subject in political discussions here and abroad, make a knowledge of journalism a necessary part of a liberal education.

PRACTICAL WORK

Journalism instruction includes not only textbook study, lectures, recitations, and analytical assignments, but practice under careful supervision. An effort is made to anticipate in the School of Journalism the conditions which will confront the journalism graduate. In the reporting classes, for example, students cover standard sources of news, both in the city and on the campus, gathering and writing their copy with a view to publication either in the campus newspaper or in the Athens daily newspaper, which cooperates with the School by publishing meritorious student work. Theoretical instruction in broadcasting, editing, headline writing, and make-up is supplemented with laboratory practice. Many of the students make their first contacts with newspapers and magazines by submitting and having accepted feature articles written in connection with their work in the course devoted to that subject. Field trips, publication of special editions, and work as correspondents for metropolitan newspapers and press associations are all a part of the practical training. Several students work for the local newspaper and radio-tv stations.

INTERNSHIP AND "CO-OP" STUDY

Back in 1931, the Grady School pioneered with internships in journalism, an adaptation of a long-established medical practice. Under this arrangement, the better students are placed with newspapers, radio-television stations, advertising departments, and other phases of journalism for a quarter of practical experience, over and above that which is part of their resident journalism classes. These internships are usually arranged for the vacation period between the junior and senior years, but may be scheduled for other quarters. The "Co-op" plan of study is also open to journalism students. This is an arrangement whereby two students alternate, quarter by quarter, university study and employment in the field. Arrangements for internship and "co-op" study are made through the office of the Dean of the School of Journalism.

BUILDING AND EQUIPMENT

The School of Journalism is housed in the Commerce-Journalism Building which was completed in the spring of 1928 and to which a large addition was made in 1947-48. In addition to ample classroom space, there are radio-tv studios, a record and seminar room, an editorial laboratory equipped with typewriters, press association wire service, and a copy desk; a large reading room with many newspapers and periodicals; a dark room for the photography course; and a large auditorium for special lectures, institutes, and conferences.

The printing division of the University is a department of the School of Journalism, and serves as the typography laboratory of the School. The purpose of the laboratory work is not to teach printing but to familiarize students with the principles of typography involved in editing copy, writing headlines, preparing advertising layouts, and in making up newspapers and magazines.

EMPLOYMENT OF GRADUATES

Graduates of the School of Journalism are filling excellent positions with newspapers, press associations, advertising agencies and departments, book

and magazine publishers, schools and colleges, radio and television stations, and specialized publications in all parts of the country. Although the School of Journalism does not guarantee to secure positions for its graduates, members of the faculty gladly assist those whose records in the classroom and extra-curricula activities recommend them for employment. A recent study showed that a high percentage of the School of Journalism graduates is profitably employed in various phases of journalism. Some of these Grady alumni hold very important positions and have made national reputations for themselves and their alma mater.

GEORGIA PRESS INSTITUTE

Sponsored jointly by the Georgia Press Association and the School of Journalism, the Georgia Press Institute is designed to assemble annually newspaper men and women, teachers of journalism and their students, and public men for round table conferences, lectures, and addresses on subjects of these Grady alumni hold very important positions and have made nabrought to Athens on these occasions. The Press Institute is in its 32nd year.

GEORGIA RADIO AND TELEVISION INSTITUTE

Sponsored jointly by the Georgia Association of Broadcasters and the Henry W. Grady School of Journalism, the Georgia Radio and Television Institute is patterned after the Press Institute, and assembles broadcasters and students to hear addresses by leading persons in the industry and to discuss, at round table sessions, various contemporary broadcasting-telecasting problems. The 1960 Radio and Television Institute was the 15th annual session.

SOUTHERN INDUSTRIAL EDITORS' INSTITUTE

Sponsored jointly by the Southern Industrial Editors' Association and the Henry W. Grady School of Journalism, the 13th annual session of the Industrial Editors' Institute was held during the fall of 1959. Patterned after the Press Institute and the Radio and Television Institute, the emphasis was on employee publications, trade journals, public relations, and specialized magazines. Outstanding authorities in these fields were the principal speakers.

GEORGIA SCHOLASTIC PRESS ASSOCIATION

Sponsored by the School of Journalism and the University chapter of Sigma Delta Chi, the annual convention of the Georgia Scholastic Press Association is held in Athens during the early part of May. The program of this convention is designed to be helpful to the high school journalists of the state, and includes addresses, lectures, and round table discussions of various phases of school publication work. The association was organized June 14, 1928 at the University with a three-fold objective: (1) to stimulate interest in high school writing courses; (2) to raise the standards of high school journalism; and (3) to bring about a closer association between the Henry W. Grady School of Journalism and the high school students in Georgia interested in journalism. Through the Association, scholarships, prizes, and certificates of distinction are awarded to meritorious high school newspapers and staff members by the School of Journalism.

GEORGIA COLLEGIATE PRESS ASSOCIATION

Also organized (May 5, 1933) by the School of Journalism and the University chapter of Sigma Delta Chi is the Georgia Collegiate Press Association, which has the following objectives: (1) to provide a closer association among the college journalists of Georgia; (2) to provide a means of recognizing meritorious journalistic efforts through the annual award of suitable distinctions; (3) to raise the standards of the college press of Georgia; and (4) to foster among college journalists of Georgia an interest in journalism not only as a profession but as an important social science. Meetings of this association similar to those of the Georgia Scholastic Press Association are held regularly.

EDUCATION-INDUSTRY CONFERENCES ON ADVERTISING AND PUBLIC RELATIONS

Co-sponsored by the National Association of Manufacturers and the Grady School are the Education-Industry Conference on Advertising and the Education-Industry Conference on Public Relations, both of which are currently in their sixth year and both of which bring outstanding persons to the campus for addresses and panel discussions.

THE PEABODY RADIO AND TELEVISION AWARDS

The George Foster Peabody Radio and Television Awards provide annual recognition of programs, stations, networks, and individuals. They recognize the most disinterested and meritorious public service rendered each year by the broadcasting and telecasting industry, and perpetuate the memory of George Foster Peabody, benefactor and life trustee of The University of Georgia.

These awards were established in May, 1940, by the Board of Regents of the University System of Georgia. Nationally prominent Americans constitute the personnel of the Advisory Board which, through the School of Journalism, administers these Awards. They are:

Bennett Cerf, President, Random House, Inc., New York City, Chairman.

Mrs. Elizabeth Ames, Executive Director, "Yaddo," Saratoga Springs, New York.

John Benson, formerly President, American Association of Advertising Agencies, New York City.

John Crosby, Radio-TV Columnist, *New York Herald Tribune.*

Earl J. Glade, Broadcaster and formerly Mayor, Salt Lake City, Utah—President, Advertising Federation of the West.

Philip Hamburger, Special Writer, *The New Yorker.*

Mrs. Dorothy Lewis, formerly Coordinator, U. S. Station Relations, United Nations, New York City—Co-President, International Association of Radio Women.

Ralph McGill, Editor, *Atlanta Constitution.*

Mrs. Harold V. Milligan, New York City. (Representing Listening Posts.)

Terrence O'Flaherty, Radio-Television Editor, *San Francisco* (Calif.) *Chronicle.*

Paul Porter, Radio-TV attorney, formerly Chairman, Federal Communications Commission, Washington, D. C.

I. Keith Taylor, Director of Radio-TV Education, Ohio State University, Columbus, Ohio.

Miss Harriet Van Horne, Radio-TV Editor, *New York World Telegram and Sun.*

Edward Weeks, Editor, *Atlantic Monthly,* Boston.

Larry Wolters, TV Editor, *Chicago Tribune.*

Ex-Officio

The Chancellor, University System of Georgia.

The Dean, Henry W. Grady School of Journalism, University of Georgia.

SIGMA DELTA CHI

The University of Georgia is one of the few Southern institutions having a chapter of Sigma Delta Chi, national professional journalistic fraternity. The Georgia chapter was installed in 1928. Its membership is restricted to those male students with good scholastic standing whose professional journalistic work is of meritorious character. Sigma Delta Chi sponsors extra-curricular journalistic activities of various kinds, and aims to promote higher journalistic ideals in the School and in the state. The Sigma Delta Chi Scholarship Award is presented to those in the upper ten per cent of the graduating class. The University chapter sponsored the organization of the Atlanta professional chapter of Sigma Delta Chi.

THETA SIGMA PHI

Composed of a selected group of advanced women students, Theta Sigma Phi is a national society designed to advance the interests of women journalists. Membership is restricted in a manner similar to that of Sigma Delta Chi. The local chapter has its own extra-curricular journalistic activities, but cooperates with Sigma Delta Chi in joint undertakings.

DI GAMMA KAPPA

Di Gamma Kappa is a national professional radio-tv fraternity. Organized at the University of Georgia in 1939, it sponsors various extra-curricular activities for students interested in broadcasting, and cooperates with the School of Journalism in the conduct of the Georgia Radio and Television Institute and similar special occasions.

KAPPA TAU ALPHA

Kappa Tau Alpha recognizes and encourages high scholarship among students in journalism. Membership is restricted to the upepr ten per cent of the graduating seniors. The University of Georgia chapter was the seventh to be established in the nation.

ALPHA DELTA SIGMA

A chapter of this national professional advertising fraternity, named in honor of Samuel C. Dobbs, was installed in the Grady School April 24, 1954. Membership is open to advertising majors with superior records.

GAMMA ALPHA CHI

This is a professional organization for women students who are especially interested in advertising and related fields.

SCHOLASTIC FRATERNITIES AND CLUBS

Students in the School of Journalism are eligible for election to Phi Beta Kappa and Phi Kappa Phi, honorary scholastic fraternities. Membership is awarded to a limited group of seniors, the selection being made on the basis of character and high scholarship. In addition to the scholastic, professional, and social fraternities at the University, there are other honorary clubs and organizations, membership in which is open to journalism students.

STUDENT PUBLICATIONS

The University has a weekly newspaper, *The Red and Black,* the editorial staff of which is composed largely of students in the School of Journalism. The campus annual, *The Pandora,* and other publications also have journalism students on their staffs.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN JOURNALISM

Non-journalism courses required in all sequences (core curriculum):

	Hours
English 101-102	10
Physical Science (two courses to be selected from Astronomy, Chemistry, Earth Science, Geology, Mathematics, Physical Science Survey, and Physics)	10
Biological Sciences (two courses to be selected from Bacteriology, Botany, Biology, Human Biology Survey, Laboratory Psychology, and Zoology)	10
Foreign Language	10 or 15

Students who offer for entrance two or more units of a foreign language (Greek, Latin, French, German, Spanish, Italian, or Portuguese) are required to take at least two courses in college in foreign language. Students who choose to continue in college the language they offered for entrance are required to take courses in 103 *and* 104. *Those students who enter without any foreign language credits may absolve the language requirements by taking either two courses in each of two languages or three courses in one language.*

Social Science (Economics 105 or 106, Geography 101, Philosophy 104, Social Science 104, or Sociology 105)	5
English 121-122	10
History 111-112 or 351-352	10

Examinations on the history of the United States and Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history. Courses approved for this purpose are History 100 *and* 351-352.

Political Science 101	5
Psychology 101	5
Physical Education 1-2 and Military Science 1-2 or Air Science 5-6 (for men) or Physical Education 1-2 (for women)	10
Total	85 or 90

Those students who cannot operate a typewriter are advised to take Business Administration 7, 303 *and/or* 304 *during the fall and winter quarters of their freshman year.*

A student will not be permitted to register for senior division courses until he has passed the non-journalism courses in the foregoing core curriculum.

Journalism Courses Required in all Sequences (Core Curriculum):

Journalism 101 or 350 (Reporting and News Writing)	5
Journalism 120 or 420 (Principles, Ethics, and Literature)	5
Journalism 130 or 430 (History)	5
Journalism 140 or 440 (Public Opinion)	5
Journalism 100, 200, 300 (Production)	5
Journalism 351 (Editing)	3
Journalism 454 (Law)	5
Journalism 456 (Magazines)	5
Journalism 557 (Advertising)	5
Journalism 580 (Radio-Television)	5
	48

News-Editorial Sequence

In addition to the core curriculum, a minimum of 25 *hours from the following courses in journalism, including those marked with the asterisk* (*):

*Journalism 352 (Typography and Make-up)	3
*Journalism 360 (Advanced Reporting)	5
Journalism 364 (Management)	3
Journalism 377 (Photography)	3
Journalism 553 (Editorials)	3
Journalism 558 (Article Writing)	3
Journalism 559 (Book Reviewing)	3
Journalism 567 (Contemporary Newspapers)	3
Journalism 577 (Public Relations)	5
Journalism 581 (Radio-TV News)	5
Journalism 590 (Specialized Periodicals)	5

Supplementary Major of at least 25 hours from such social sciences as history, political science, sociology, and psychology. Electives to complete a total of 195 hours.

Radio-Television-Journalism Sequence

Journalism courses required in addition to core curriculum:

Journalism 581 (Radio-TV News)	5
Journalism 582 (Radio-TV Programming)	5
Journalism 583 (Radio-TV Workshop)	5
Journalism 584 (Radio-TV Advertising)	5
Journalism 585 (Television), Journalism 386 (Oral Reading) or Journalism 387 (Dramatic Interpretation)	5
Total	25

Supplementary Major of at least 25 hours from drama, music, and speech. Electives to complete a total of 195 hours.

Advertising-Public Relations-Business Sequence

In addition to the core curriculum, a minimum of 25 hours from the following courses in journalism, including those marked with the asterisk (*):

*Journalism 208 (Advertising Art)	5
Journalism 352 (Typography and Make-up)	3
Journalism 364 (Management)	3
Journalism 377 (Photojournalism)	3
Journalism 574 (Advertising Campaigns)	5
*Journalism 575 (Advertising Copy)	5
Journalism 576 (Advertising Media)	5
Journalism 577 (Public Relations)	5
Journalism 578 (Retail Advertising)	5
Journalism 579 (Newspaper Advertising)	5
Journalism 584 (Radio-TV Advertising)	5
Journalism 590 (Specialized Periodicals)	5

Supplementary Major of at least 25 hours from economics, business administration, and phychology. (Economics 105, Business Administration 562, 563, 564, and Psychology 371, 373, especially recommended.) Electives to complete a total of 195 hours.

Journalistic-Literary Appreciation Sequence

In addition to the core curriculum, a minimum of 25 hours from the following courses in journalism, including those marked with the asterisk (*):

*Journalism 360 (Advanced Reporting)	5
Journalism 362 (Fiction Writing)	3
Journalism 363 (Advanced Fiction and Article Writing)	3
Journalism 377 (Photojournalism)	3
Journalism 553 (Editorials)	3
*Journalism 558 (Feature Writing)	3
*Journalism 559 (Book Reviewing)	3
Journalism 577 (Public Relations)	5
Journalism 590 (Specialized Periodicals)	5

Supplementary Major of at least 25 hours from the humanities, fine arts, social sicences. (American and English literature courses especially recommended.) Electives to complete a total of 195 hours.

Journalistic-Secretarial Sequence

In addition to the core curriculum, a minimum of 25 hours from the following courses in journalism, including those marked with the asterisk (*):

*Journalism 352	(Typography and Make-up)	3
Journalism 377	(Photojournalism)	3
Journalism 553	(Editorials)	3
Journalism 558	(Article Writing)	3
Journalism 559	(Book Reviewing)	3
Journalism 567	(Contemporary Newspapers)	3
*Journalism 577	(Public Relations)	5
Journalism 590	(Specialized Periodicals)	5

Supplementary Major of at least 25 hours, including Business Administration 108, 110 or 370, 300 a-b-c, 310, and necessary courses in typing. Electives to complete a total of 195 hours.

Home Economics-Journalism Sequence

Non-journalism courses required in all sequences (core curriculum)	85 or 90
Journalism courses required in all sequences (core curriculum), except Journalism 100, plus Journalism 208 and 558	51
Home Economics 115 (Meal Planning and Serving)	5
Home Economics 120 (Clothes Construction)	5
Home Economics 325 (How to Dress)	5
Home Economics 293 (Family Relationships)	5
Home Economics 343 (Care of the House)	5
Home Economics 370 (Family Food Buying)	3
Home Economics 390 (Family Fundamentals)	3
Electives, chosen with approval of Dean of School of Journalism, to complete a total of	195

A minimum grade of C is required in all major subjects. All supplementary major subjects and electives shall be chosen with the approval of the Dean of the School of Journalism and are determined by the sequence in which the student is especially interested.

FIVE-YEAR SEQUENCE

A student who has received the A.B. degree from a college belonging to a standard regional association may satisfy the requirements for the A.B. in Journalism degree with a minimum of 45 hours in Journalism, selected with the approval of the Dean of School of Journalism. Such a student must be in residence at the University three quarters.

COMBINATION GRADUATE COURSE IN JOURNALISM AND BUSINESS ADMINISTRATION

The degree of Master of Business Administration may be taken as a combination curriculum of the School of Journalism and the College of Business Administration, leading to the degree of A.B. in Journalism in four years and the M.B.A. after an additional four quarters of study.

This program is designed to aid those anticipating interpretative writing in economics and related fields, and also those who plan to work in the business phases of journalism.

Students who contemplate pursuing this combination should register for the Advertising-Public Relations-Business Sequence, A.B. in Journalism degree. The supplementary major plus electives (totaling 40 hours) should be selected from offerings of the College of Business Administration, including Economics 105 (Principles of Economics), Business 110 (Accounting), and the Business Administration core curriculum with the exception of Business Administration 370.

As a graduate of the School of Journalism with the foregoing undergraduate courses, the student may complete the requirements for the M.B.A. degree in four quarters. At least 40 of the 60 hours required for this degree must be taken from offerings of the College of Business Administration. The remaining 20 hours may be taken as a minor in the School of Journalism.

COMBINATION COURSE IN JOURNALISM AND LAW

An understanding of the various phases and techniques of journalism is of much value to the lawyer. Likewise, a knowledge of the law is useful to the journalist. On this premise, a combination law and journalism curriculum has been set up, similar to that which exists in the College of Arts and Sciences and the College of Business Administration. This is a six-year program, leading to the two degrees, Bachelor of Arts in Journalism and Bachelor of Laws. Under this arrangement, the first year in the School of Law takes the place of the fourth year in the School of Journalism. The student must, however, satisfy all the specific course requirements in the School of Journalism, including the non-journalism courses in the core curriculum, the journalism courses required in all sequences, and the journalism courses in the particular sequence chosen by the student. The work in law, in this joint program, becomes the supplementary major required of all candidates for the journalism degree. Under this joint arrangement, the degree of A.B. in Journalism will be granted upon the satisfactory completion of the first year of law and a minimum of 185 quarter hours (exclusive of physical education and/or military or air science).

MASTER OF ARTS

The Master of Arts will be conferred upon the completion of a major in Journalism, a minor in the social sciences, a minor in English, and the preparation of a satisfactory thesis upon the subject assigned. Prerequisites for admission as a prospective candidate for this degree include an approved bachelor's degree from an accredited institution and the necessary undergraduate courses in Journalism.

ONE-YEAR COURSE

To serve as a refresher course for returned veterans and others who wish to spend only one year in college, the School of Journalism offers a special three-quarter program, normally consisting of 45 hours in journalism and related subjects. Only those persons with a serious and definite reason are admitted to this short program. A student who enrolls for the

special, one-year program may later become a candidate for the A.B. in Journalism degree by meeting all entrance and residence requirements.

COURSES OF INSTRUCTION

(Commerce-Journalism Building, North Campus)

The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five hours a week and carry five hours credit.

FRESHMAN AND SOPHOMORE COURSES

100. JOURNALISTIC PRODUCTION. 1 to 5 hours. Prerequisite: Journalism 101 or 350. *The Staff.*

Reportorial, editorial, and advertising work, with RED AND BLACK and other campus and local publications and organizations, under faculty supervision.

101. INTRODUCTION TO JOURNALISM. *Mr. Drewry* and *Staff.*

A survey of the communications field, including writing therefor.

120. PRINCIPLES AND ETHICS OF JOURNALISM. *Mr. Drewry.*

A study of the fundamentals of journalism, including ethics, practices, and trends.

130. HISTORY OF JOURNALISM. *Mr. Kopp.*

A study of the development of the newspaper, particularly in the United States, including biographical studies of outstanding editors, a consideration of journalism in its various periods and conditions, and the aims of journalism.

140. PUBLIC OPINION AND JOURNALISM. *Mr. Kopp, Mr. Moore,* and *Mr. McDougald.*

A study of the influence of journalism upon opinions, standards of living, tastes, and morals in American life. This course includes a survey of the theory of public opinion, particularly the part of newspapers, magazines, radio, television, and other agencies of communication, in the development of the intelligent public mind.

JUNIOR AND SENIOR COURSES

200. JOURNALISTIC PRODUCTION. 1 to 5 hours. Prerequisite: Permission of the Dean of the School of Journalism. *Staff.*

A management conference course for those holding major elected position on the RED AND BLACK.

208. ADVERTISING ART. *Mr. Dodd* and *Art Staff.* (Also offered as Art 208.)

Fundamentals of lettering, color, design, typography, packaging, and reproduction as related to modern advertising problems. Layout of newspaper, magazine, and direct-mail advertising.

300. JOURNALISTIC PRODUCTION (INTERNSHIP). 1 to 15 hours. Prerequisites: Basic courses in technique and permission of the Dean of the School of Journalism. *The Staff.*

A few superior students of junior or senior standing will be permitted to register for this course as a means of obtaining practical experience over and above that offered in this School. The exact amount of credit will be determined by the circumstances in each case, but the maximum credit for Journalism 100, 200, and 300 is 15 hours.

350. BASIC COMMUNICATIONS TECHNIQUES. *Mr. Drewry* and *Staff.*

The senior division introductory course in journalism, including news values, reporting, and writing.

351. COPY READING AND EDITING. 3 hours. Prerequisite: Journalism 101 or 350. *Mr. Hynds* and *Mr. McDougald.*

The basic course in editing for all types of publications, with special emphasis on newspaper and press service copy. Headline and caption writing.

352. MAKE-UP AND TYPOGRAPHY. 3 hours. Prerequisites: Journalism 101 or 350 and 351. *Mr. Hynds* and *Mr. Kraps.*

A continuation of Journalism 351, with special emphasis on newspaper and periodical make-up and typography. Practical work is made possible by a printing laboratory.

360. ADVANCED REPORTING AND WRITING. Prerequisites: Journalism 101 or 350. *Mr. Kopp* and *Mr. McDougald.*

Theory and practice in covering news of governmental activities, together with a detailed survey of municipal, state, and federal organizations and the administration of public affairs.

361. DRAMATIC CRITICISM. 3 hours. *Mr. Ballew* and *Staff.*

Theory and practice in reviewing stage productions, motion pictures, and concerts.

362. THE SHORT STORY. 3 hours. *The Staff.*

A practical writing course for students who have mastered the fundamentals of English expression and who are interested in writing fiction for contemporary magazines or other markets.

364. NEWSPAPER MANAGEMENT. 3 hours. *Mr. Kopp* and *Mr. Moore.*

Business and editorial management of daily and weekly newspapers, including circulation, advertising, and promotion.

368. CONTEMPORARY JOURNALISTIC PRACTICE. *Mr. Drewry* and *Staff.*

A survey of news and feature work for newspapers, radio-tv, and periodicals, for specialized groups, such as students in agriculture, home economics, county agents, etc. Special attention will be given to publicity and public relations.

376. (PHYSICS) PRINCIPLES OF PHOTOGRAPHY. 3 hours. One hour of recitation and four hours of laboratory work. Prerequisite: Physical Science 101, Physics 120, or the equivalent. Supply deposit, $10. *Mr. Dixon.*

An elementary approach to the factors involved in the choice of a camera, the exposure and development of the film, the production of contact prints, the enlargements of prints, and color photography.

377. PHOTOJOURNALISM (JOURNALISTIC PHOTOGRAPHY). 3 hours. *Mr. Abney* and *Mr. McDougald.*

A study of the photographic requirements of newspapers and magazines and the technique of news photography with elementary training in the use of various cameras, development, and enlarging. Selection of photographs for publication, including editing, scaling to size, the engraving processes, and caption writing.

386. RADIO-TELEVISION—ORAL INTERPRETATION OF LITERATURE. Prerequisite: Speech 108 and/or permission of instructor. (Also offered as Speech 386). *Mr. Popovich.*

A study of the techniques of literary analysis for effective oral reading of lyric and narrative literature and the development of vocal flexibility through a variety of problems in phrasing and emphasis, with special reference to radio-tv.

387. RADIO-TELEVISION—DRAMATIC INTERPRETATION. Prerequisite: Speech 108 and/or permission of instructor. (Also offered as Speech 387). *Mr. Popovich.*

A study of the theory, techniques, and principles of interpretation of drama from the points of view of the oral interpreter and actor. Development of oral skills through the study of selected plays and monologues—with special reference to radio-tv.

JUNIOR-SENIOR OR GRADUATE COURSES

420. THE LITERATURE OF JOURNALISM. *Mr. Drewry.*

An advanced study of the origins and fundamentals of modern journalism, including ethics, practices, and trends, with emphasis on the literature of the entire communications field.

430. HISTORY OF JOURNALISM. *Mr. Kopp.*

An advanced course in the history of journalism in which the students make historical studies of certain newspapers or groups of newspapers, preferably Georgia or Southern, and biographical studies of editors.

440. PUBLIC OPINION AND JOURNALISM. *Mr. Kopp* and *Mr. Moore.*

An advanced course devoted to an examination of the influence of the newspaper and other journalistic agencies in the direction and control of public opinion.

454. THE LAWS OF COMMUNICATIONS. *Mr. Kopp.*

A consideration of certain legal aspects of journalism (radio-television as well as the press), including libel, contempt of court, right of privacy, copyright, and postal laws.

456. THE MAGAZINE. *Mr. Drewry.*

This course is intended for two groups: (1) those who are interested in contemporary thought and in magazines as a phase of current American literature; and (2) those who plan to contribute to magazines, and therefore would know the markets. Attention is given to current American writers, particularly their work for the periodical press. Magazines are considered in historical and contemporary perspective.

467. CONTEMPORARY AMERICAN NEWSPAPERS. 3 hours. *Mr. Kopp.*

A study of outstanding present-day newspapers in the United States, including a consideration of their development, noted personalities on their staffs, and their characteristics and policies.

469. GEORGIA JOURNALISM. Prerequisite: Journalism 130 or 430, Political Science 101, and History 459. *The Staff.*

A study of the place of Georgia newspapers, periodicals, editors, and contributors in American history and in American journalism.

537. PUBLIC RELATIONS (PUBLICITY). 3 hours. *Mr. Abney, Mr. Kopp, Mr. Moore,* and *Mr. McDougald.*

A 3-hour version of Journalism 577. See Journalism 577 for description.

544, 545, 546. RADIO-TELEVISION ACTING, DIRECTING, AND PRODUCTION. Three separate 5 hour courses. Prerequisite: Two senior division courses in Speech, Drama, or Radio-Television. (Also offered as Speech 544, 545, 546.) *Mr. Weinman.*

Three advanced courses in radio-television acting and directing. Plays will be rehearsed in the Laboratory Theatre and radio-tv plays broadcast from the studios in the Commerce-Journalism Building. Elective courses open to students having the necessary prerequisites.

553. THE EDITORIAL. 3 hours. Prerequisite: Journalism 101 or 350. *Mr. Hynds* and *Mr. Drewry.*

A study of the technique of writing various types of editorials, with practical assignments in each type. A study of interpretation and comment. Students in this course make practical analyses of representative editorial pages.

557. ADVERTISING PRACTICE. *Mr. Drewry.*

A survey of the advertising field, including maker, seller advertising agency, and media—newspaper, magazines, billboards, radio-tv, etc. Theory and practice in writing various types of advertisements.

558. FEATURE WRITING AND SPECIAL ARTICLES. 3 hours. *Mr. Hynds* and *Mr. Drewry.*

Theory and practice in writing articles of a varied character for newspapers, magazines, syndicates, trade journals, and radio-television.

559. LITERARY APPRECIATION. (Book Reviewing). 3 hours. *Mr. Hynds, Mr. Kopp* and *Mr. Drewry.*

A course in literary appreciation and evaluation with the emphasis on current books and the preparation of reviews for newspapers, magazines, radio-tv, and specialized publications.

563. ADVANCED FEATURE, FICTION, AND RADIO-TV WRITING. 3 hours. Prerequisite: A satisfactory grade in Journalism 362, 558, or 580. *The Staff.*

A continuation of production work begun in feature, fiction, or radio-tv writing, with emphasis on marketing, publication, or broadcasting.

566. JOURNALISM IN THE SECONDARY SCHOOL. (Also offered as Education 566). *The Staff.*

A survey of news gathering, news writing, copy reading, typography, and business management, with specific relation to the high school newspaper. Also school public relations.

574. ADVERTISING CAMPAIGNS. Prerequisites: Journalism 101 or 350 and 557 or 575. *Mr. Moore.*

Planning and preparation of copy and layout for a complete national advertising campaign, with emphasis on media and copy research.

575. ADVERTISING COPY WRITING. Prerequisite: Journalism 101 or 350. *Mr. Moore.*

Principles and practices in the preparation of copy for a variety of media. Reader surveys, copy tests, and a study of products in relationship to copy and markets are a part of this course.

576. ADVERTISING MEDIA. Prerequisites: Journalism 101 or 350 and 557 or 575. *Mr. Moore.*

A study and evaluation of the principal advertising media, including newspapers, magazines, trade publications, radio-tv, outdoor, novelty, and cinema. The work of an advertising office or agency and the selling of space or time are considered.

577. PUBLIC RELATIONS. (PUBLICITY). *Mr. Abney, Mr. Moore,* and *Mr. McDougald.*

A study of problems and techniques. Analyses of publicity campaigns and discuscussions of the ways in which various media can be utilized.

578. RETAIL ADVERTISING COPY AND SALES PROMOTION. Prerequisite: Journalism 575. *Mr. Moore.*

Analyses of overall promotion of the department store and other retailers. Preparation of copy for various types of retail advertisers and for the various media used by the retailer. Each student will write a term paper in the phase of retail advertising which particularly interests him.

579. NEWSPAPER ADVERTISING. Prerequisites: Journalism 101 or 350 and 557. *Mr. Moore.*

Basic practices, techniques, and problems of weekly, small daily, and metropolitan newspaper advertising departments. Newspaper advertising, sales promotion preparation, planning, research, and legal and ethical problems.

580. RADIO-TELEVISION IN JOURNALISM. *Mr. McDougald* and *Staff.*

Radio and television as phases of journalism.

581. RADIO-TELEVISION NEWS. Prerequisite: Journalism 101 or 350, or special permission. *Mr. McDougald* and *Staff.*

The processing of news for radio and television. Evaluation of stories, arrangements of 5 and 15 minute newscasts, news spots, and analysis of newscasts being presented over network and local stations.

582. RADIO-TELEVISION PROGRAMMING. Prerequisite: Journalism 580. *Mr. McDougald* and *Staff.*

A study of programming, with special emphasis on public service and the social aspects of radio and television. An examination of Peabody entries and winners.

583. RADIO-TELEVISION PERFORMANCE. Prerequisite: Journalism 101 and 580, 581 or 582 (one of last three). Class will be limited to ten carefully chosen students definitely interested in radio-television as a career. *Mr. McDougald* and *Staff.*

A laboratory course wherein the student gets actual experience, under faculty supervision, in various aspects of broadcasting and telecasting. On-the-job experience will be supplemented by seminars and regular conferences with instructors.

584. RADIO-TELEVISION ADVERTISING. Prerequisite: Journalism 101 or 350. *Mr. McDougald* and *Staff.*

Radio and television as advertising media. Preparation of scripts and various types of commercial programs.

585. TELEVISION. *Mr. McDougald* and *Staff.*

An introductory course concerned with the history, problems, and techniques of television. Theoretical instruction is supplemented by laboratory observation and work in nearby television stations.

590. EMPLOYEE PUBLICATIONS AND SPECIALIZED PERIODICALS. Prerequisites: Journalism 350, 351, 352, 456. *Mr. Moore.*

Purpose, content, appearance, editing of internal and external house publications and specialized periodicals.

GRADUATE COURSES

For all undergraduate journalism courses in the 400 and 500 series, listed in the preceding section, there are graduate courses under corresponding numbers in the 600-700 series. For example, Journalism 456, is offered on the graduate level as Journalism 656. In addition to these 600-700 series courses, the following exclusively graduate courses are offered:

807-808. ADVERTISING-PUBLIC RELATIONS. 10 hours. *Mr. Drewry.*
Special work based on Journalism 557, including public relations as well as advertising.

830. RESEARCH IN JOURNALISM. Prerequisite: 30 or more credit hours in journalism at the senior or graduate level. Open only to graduate students in journalism. *Mr. Drewry, Mr. Kopp,* and *Mr. Moore.*
Individual research in journalism. Permission of the instructor required.

HISTORY, NAME AND ACCREDITATION

Instruction in journalism at the University of Georgia dates back to 1915 when a School of Journalism was authorized by the Board of Trustees. In 1921 the School was named for the illustrious editor, orator, and statesman, Henry W. Grady, an alumnus of the University.

The Grady School is on the approved list of the Association for Education in Journalism and for some years has been a member of the American Association of Schools and Departments of Journalism, the national accrediting organization whose membership is limited to those schools which have met certain requirements as to curriculum, faculty, and equipment.

SPECIAL LECTURERS*

JACK ANDERSON, Washington Correspondent, and Co-author (with Drew Pearson) of "U.S.A. — Second Class Power?"

J. RAYMOND BELL, President, Allied Public Relations, Inc., New York City.

ALTON BLAKESLEE, Science Editor, Associated Press, New York City.

HOWARD BOWLES, President, Southern Institute of Management, Louisville, Kentucky.

MARY COBB BUGG, Staff Editor, *Southern Telephone News,* Atlanta.

ERNEST CAMP, JR., Vice-President, Burke Dowling Adams, Inc., Atlanta.

BENNETT CERF, President, Random House, Inc., New York City, and Chairman, Advisory Board, George Foster Peabody Radio and Television Awards.

WILLIAM P. CORLEY, Regional Manager, Communications Counselors, Inc., Atlanta.

MATTHEW J. CULLIGAN, Executive Vice-President, NBC-Radio, New York City.

DEAN W. DETWILER, Manager of Employee Communications, Perfect Circle Corporation, Hagerstown, Indiana.

C. H. DYKEMAN, Editor-in-Chief, Dealer Publications, Ford Motor Company, Dearborn, Michigan.

PHILIP EWALD, Promotion Director, *The New Yorker* Magazine.

*This is a partial list of those heard during the 1958-59 school year. A similar group is heard each session.

HOBART T. FRANKS, Advertising Director, *Atlanta Journal* and *Constitution.*

SEYMOUR HENCK, President, Henck Associates, Atlanta.

J. LES HENRIKSON, Public Relations Representative, WAGA Radio and TV, Atlanta.

DONALD M. HOBART, Senior Vice-President and Director of Research, Curtis Publishing Company, Philadelphia.

H. REDFERN HOLLINS, Director of Research and Promotion, W. R. C. Smith Publishing Company, Atlanta.

SYDNEY M. KAYE, Chairman of the Board and General Counsel, Broadcast Music, Inc., New York City.

EDGAR KOBAK, Business and Communications Consultant, New York City.

THEODORE F. KOOP, Washington Director of CBS News and Public Affairs, Washington, D. C.

WILBUR G. KURTZ, JR., Manager, Special Promotional Activities and Corporate Archives, The Coca-Cola Company, Atlanta, and President, Atlanta Advertising Club.

CHESS LAGOMARSINO, Vice-President and Promotion Manager, Lenox Square Shopping Center, and Sales Promotion Consultant, Atlanta.

LOIS A. LAROCHE, President, P. R., Inc., Atlanta.

FULTON LEWIS, JR., Washington Correspondent and Broadcaster, Washington, D. C.

ROBERT C. LOWE, JR., Partner, Lowe and Stevens, Atlanta.

ED LIPSCOMB, Director of Public Relations and Sales Promotion, National Cotton Council, Memphis, Tennessee.

EDWARD MAHER, Vice-President in Charge of Public Relations, National Association of Manufacturers, New York City.

JACK J. MCDONOUGH, President, Georgia Power Company, Atlanta.

DONALD H. MCGANNON, President, Westinghouse Broadcasting Company, Inc., New York City.

HOMER T. MEADERS, Reporter, *Atlanta Journal.*

RELMAN MORIN, Special Correspondent, Associated Press, New York City.

AUBREY MORRIS, News Director, WSB-Radio, Atlanta.

BRUCE W. MUNN, Chief, United Nations Bureau, United Press International, New York City.

STANTON R. NEWKIRK, Administrative Assistant to Industrial and Community Relations Manager, Champion Paper and Fibre Company, Hamilton, Ohio.

DWAYNE ORTON, Editor, *Think,* and Educational Director, International Business Machines Corporation, New York City.

FLUKER G. STEWART, Coordinator of Community Relations and Director of Publications, GENESCO (formerly General Shoe Corporation), Nashville, Tennessee.

ED SULLIVAN, Columnist and TV Emcee, New York City.

ROBERT D. SWEZEY, Executive Vice-President and General Manager, WDSU Broadcasting Corporation, New Orleans, Louisiana.

SOL TAISHOFF, Editor and Publisher, *Broadcasting Magazine,* Washington, D. C.

ABE WEINSTEIN, President, Harris and Weinstein Associates, Atlanta.

THE SCHOOL OF HOME ECONOMICS

MARY SPEIRS, A.B., M.A., Ph.D., *Dean*

GENERAL INFORMATION

HISTORY AND PURPOSE

The School of Home Economics originated as the Division of Home Economics of the State College of Agriculture in 1918 and offered the first undergraduate work open to women in the University of Georgia. The earliest curriculum marked the first opportunity for women to secure the baccalaureate degree from any state supported institution in Georgia. The School of Home Economics was established in 1933 when the Household Arts Department of the State Teachers College was merged with the Division of Home Economics of the Georgia State College of Agriculture.

The School of Home Economics takes as its major objectives the preparation of students for satisfactory and effective family life and training for professional careers. The first is achieved by means of a well-rounded program of general, scientific, and technical education, and the second through a variety of home economics curricula. Since a high percentage of all home economics graduates ultimately marry and go into homes of their own, it is important that the basic curriculum prepare them for homemaking. The student who chooses to enter home economics for vocational preparation will find in this field an interesting choice of professional opportunities. Special programs are available to able students which permit concentration in both a major area of home economics and a related area of science.

Graduates of the School have filled positions as home economics teachers both in high schools and colleges, home demonstration agents, workers in community agencies, hospital dietitians, demonstrators for commercial organizations, department store buyers, personnel and public relations workers, nursery school teachers, child welfare workers, college teachers, and research workers.

The School of Home Economics also offers a wide variety of more general subject matter for both men and women from other schools in the University who are interested in home and family education as well as in certain technical phases of home economics.

FACILITIES

Erected in 1932, Dawson Hall is located on South Campus. It is within walking distance of the North Campus and the business center of the city.

Dawson Hall is a three-story structure containing modern and fully equipped teaching laboratories and classrooms for equipment, foods, nutrition, textiles, clothing, home nursing, and home furnishing, as well as research laboratories. The building also provides a student and faculty lounge and an auditorium for club groups and special programs. In close proximity to Dawson Hall are the residence halls for women, the Physical Education Building for Women, three home management houses, the nursery school, the infant center, the South Campus Library, and the cafeteria in Snelling

Hall. The college dining halls are used as laboratories for institution management courses.

The three home management houses are modern and well-equipped. They serve as teaching laboratories for home management and also for home furnishings. Each house has a resident director. Students living in small groups for a quarter's residence required of most majors have an opportunity to apply the sciences and arts of home economics to a family situation.

The School of Home Economics in cooperation with the Department of Psychology maintains a nursery school as a laboratory for courses in child development. The Department of Psychology collaborates in teaching and psychological testing and also offers consultant service to parents. The nursery school is equipped to meet the needs of pre-school children. Immediately adjacent to the nursery school is the infant center laboratory.

UNIVERSITY OF GEORGIA FAMILY COUNSELING SERVICE

STANLEY E. FOWLER AND ELIZABETH T. SHEERER, *Counselors*

The Family Development staff offers counseling services on pre-marital, family, and other personal problems. The main purpose of these services is to provide help for students, but a limited number of non-students may use this service. Those desiring services should apply directly to one of the counselors.

STUDENT ACTIVITIES

Home Economics students are eligible to participate in all general University activities. Special activities in the School of Home Economics are carried on by the Homecon club whose semi-monthly meetings are attended by majors in the School. The national honorary home economics sorority on the campus is Phi Upsilon Omicron, in which membership is based on scholarship, extra-curricular activities, and professional attitude. A student-faculty committee is representative of student groups within the school and serves in an advisory capacity on matters pertaining to home economics.

SCHOLARSHIPS AND AWARDS

A few scholarships and awards are open primarily to Home Economics students. For data on additional scholarships and awards, see the General Information section of this Catalogue.

THE BORDEN AWARD is made to the home economics senior who received the highest average grade of any student in the School of Home Economics during the three quarters of her junior year at the University. The award is $300.

DEAN'S AWARDS IN HOME ECONOMICS. Two annual awards of $100 each for excellence in the sophomore and freshman years, respectively, and superior promise in Home Economics.

THE DANFORTH FELLOWSHIP provides a month's summer program for the home economics junior who holds an outstanding record of scholarship and school leadership. Two weeks at Camp Miniwanca and two weeks in St. Louis under the supervision of the Danforth staff make up the month's program. The Danforth Fellowship for freshmen is open to the outstanding home economics freshman girl both in scholarship and activities and offers

two weeks of camp at Miniwanca during the summer between the freshman and sophomore years.

Two Kroger Scholarships of $250 each are awarded to freshman home economics students. Apply by March 1.

Four Sears-Roebuck Scholarships of $300 each are available each year to freshman home economics students. Apply by March 1.

A Georgia Dietetic Association Scholarship of $150 is available to a major in dietetics or institution management to help finance the internship year after graduation.

The James Coffee Harris Award is given annually to a Junior for proficiency in Home Economics and English. This award is a bequest of the late Agnes Ellen Harris who was Dean of Home Economics at the University of Alabama.

GRADUATE STUDY

The School of Home Economics offers graduate study in several phases of work that will lead toward the Master of Science degree or the Master of Home Economics degree. For further information on advanced study see the bulletin of the Graduate School.

DEGREE REQUIREMENTS

A total of 185 quarter hours exclusive of Physical Education is required for the Bachelor of Science in Home Economics degree. Physical Education 1 and 2 are required of all freshmen and sophomores, but may be waived for transfer students entering the junior class with full standing.

Special Scholarship Requirements. In addition to the general University requirements relative to scholarship, the following requirements must be met by all students in home economics:

Any student, who does not have an average weighted grade of 73 or more at the end of the quarter in which 85 academic quarter hours of work have been completed, will not be entitled to continue in attendance in the School of Home Economics except by special permission of the Dean. Such permission will be granted only in exceptional cases; required will be satisfactory achievement in basic freshman and sophomore courses.

At least an average grade of "C" must be earned in all courses taken either in home economics or in the joint major area of concentration, before credit for the course will be given for graduation.

Special Examinations. Placement tests in several areas of home economics are available. Students may be exempted from requirements for certain courses on the basis of their performance in these tests. Students showing a deficiency in mathematics or in reading ability may be required to take certain remedial non-credit courses.

Special Programs. Men and women students may take special programs designed to provide concentration in a single major area of home economics and in a related area of natural or social science. This type of program may be taken only by a student of proven academic ability and with permission of the Dean. The curriculum will be planned to meet the needs of each student, but must include at least 80 quarter hours of general education (humanities and sciences), 40 quarter hours in courses numbered 200 or above in the major area of home economics, and 40 quarter hours in specified related areas of science. These special programs are particularly

suitable for students planning for graduate study in certain subject matter areas of home economics.

Junior and senior schedules may vary from 45 to 48 hours with approval of the major professor and Dean of the School.

Freshman and Sophomore Requirements

	Hours
Art 120	5
Art or Music elective	3-5
English 101 and 102, Composition	10
English 121 and 122, European Literature	10
Science (Select from Item 2 below)	10-15
Social Science (Select from Item 3 below)	10-15
Home Economics 101, Orientation	1
Home Economics 115, Foods	5
Home Economics 120, Clothing	5
Home Economics 175, Home Furnishings	5
Home Economics 293, Family Relations	5
Home Economics 224, Textiles	5
Home Economics 343, Household Equipment	5
Speech 108	5
Physical Education	10

Junior and Senior Core Requirements

Science (Select from Item 2 below)	5-10
Social Science	5-10
Home Economics 306 or 350, Advanced Foods	5
Home Economics 351 or 358, Nutrition	5
Home Economics 368 and 369, Home Management	6
Home Economics 390 or 490, Infant or Child Development	5

Note on Freshman and Sophomore requirements: Hours of science or social science vary with the major concentrations. Home Economics 224, Home Economics 343, and Home Economics 306 may be taken in either the sophomore or junior year. Home Economics and Art majors will take Art 120, 130, and 140 in sequence and will also take 10 hours of approved art electives in the sophomore year.

See major concentrations for total requirements of Junior and Senior years.

DETAIL OF TOTAL REQUIREMENTS

	Hours
1. English 101 and 102, Composition	10
English 121 and 122, European Literature	10
Speech 108	5
2. Science (minimum)	20

For all majors Chemistry 121 is required, and at least ten of the hours must be taken in one subject area: Biological Science, Chemical Science, Physical Science.

Specified sciences needed for the various majors are as follows:

Major in Clothing and Textiles: Chemistry 121 and 260.

Major in Dietetics and Institution Management: Chemistry 121, 122, 260, 451; Human Biology 101; Bacteriology 350 (30 hours)

Major in Home Economics Education: Bacteriology 350; Chemistry 121 and 260; Human Biology 101.

Major in Experimental Foods: Chemistry 121, 260; Human Biology 101; Physics 120 or Chemistry 122; Bacteriology 350 (25 hours)

Major in Family Development: Chemistry 121; Human Biology 101

Major in Housing and Home Management: Physics 120; Chemistry 121, 260; Human Biology 101

Major in Nutrition: Chemistry 121, 122, 260, 451; Physics 120; Human Biology 101; Bacteriology 350 (35 hours)

3. Social Science (minimum) 20

Select courses from at least two of the following: Anthropology, Economics, Geography, History, Philosophy, Political Science, Psychology, Sociology.

Specific courses in social science needed for certain curricula should be selected as follows:

Major in Clothing and Textiles: Economics 105 and 360, Psychology 101

Major in Dietetics and Institution Management: Economics 105; Psychology 101; Sociology or additional Psychology

Major in Home Economics Education: Economics 105; Psychology 101

Major in Experimental Foods: Economics 105; Psychology 101

Major in Family Development: Psychology 101; Sociology 105.

Concentration in Family Living, total requirement 25 hours

Concentration in Child Development, total requirement 20 hours

Major in Housing and Home Management: Economics 105; Psychology 101; Sociology 105

Major in Home Economics and Art: Psychology 101

Major in Home Economics and Journalism: Economics 105; Psychology 101, 371

Major in Nutrition: Economics 105; Psychology 101

4. Fine Arts 8-10

Art 120 and one course in Music, Art, Visual Arts, or Crafts are to be chosen.

Major in Clothing and Textiles: Art 120 and two approved art courses (15 hours).

Major in Home Economics and Art: Art 120, 130, and 140 in sequence (15 hours).

5. Home Economics, Core Requirements 50-52

Course	Hours
101 Orientation	1
115 Foods	5
120 Clothing	5
175 Home Furnishings	5
224 Textiles	5
293 Family Relations	5
343 Household Equipment	5
306 or 350 Advanced Foods	5
351 or 358 Nutrition	5
368-9 Home Management	6
390 or 490 Infant or Child Development	5

6. Major Concentration and Free Electives 53-62

At least thirty hours should be selected to meet requirements of the major concentration.

7. Physical Education 10

Total Requirements 195

MAJOR CONCENTRATION

Upon completion of freshman and sophomore requirements each student will, with approval of the Dean of the School, select a major concentration. This selection should conform to one of the plans indicated, and must include forty quarter hours in home economics courses numbered 200 or above. Minor changes in programs may be made upon recommendation of the major professor with approval of the Dean.

MAJOR IN CLOTHING AND TEXTILES

This major offers training to the future homemaker for artistic and intelligent selection of and care of clothing and household fabrics for the family. It gives preliminary training which may lead to: becoming a clothing or textile specialist, fabric or fashion coordinator, clothing or textile designing; consumer consultant, buyer; writing for trade publications; college teaching and research.

Junior and Senior Requirements

	Hours	
CLOTHING AND TEXTILES		33
Home Economics 223 Family Clothing	3	
Home Economics 321 Advanced Clothing	5	
Home Economics 360 Advanced Textiles	5	
Home Economics 561 Clothing and Textiles Economics	5	
Three courses selected from the following:	15	
Home Economics 363 Costume Design		
Home Economics 463 Historic Costume		
Home Economics 562 Tailoring		
Home Economics 564 Design and Draping		
FAMILY DEVELOPMENT		5
Home Economics 390 or 490 Infant or Child Development	5	

FOODS AND NUTRITION		10
Home Economics 306 Advanced Foods	5	
Home Economics 351 Nutrition	5	
HOUSING AND HOME MANAGEMENT		11
Home Economics 343 Household Equipment	5	
Home Economics 368-9 Home Management	6	
BUSINESS ADMINISTRATION Elective		5
Arts and Sciences (See Total Requirements)		15
Electives		15
		94

Suggested Electives: Home Economics 364; Art 208, 251, 261, 241 preferred, or Art 250, 255, 256; Business Administration 562, 563; Chemistry 122, 223, 380; Physics 120, 370; Journalism 368; Sociology 105, 427; Mathematics.

MAJOR IN DIETETICS AND INSTITUTION MANAGEMENT

This major meets the requirements of the American Dietetic Association and gives preliminary training for the dietitian. It prepares the student for administrative and therapeutic dietetics as well as for the teaching of dietetics and for the graduate year in hospital dietetics. Students are also prepared for lunch room, tea room, or college dining hall management if electives are selected properly.

Junior and Senior Requirements

	Hours	
FOOD AND NUTRITION		25
Home Economics 306 Advanced Foods	5	
Home Economics 351 Nutrition	5	
Home Economics 354 Quantity Cookery	5	
Home Economics 452 or 353 Advanced Nutrition	5	
Home Economics 453 Nutrition in Disease	5	
INSTITUTION MANAGEMENT		10
Home Economics 372	5	
Home Economics 374	5	
CLOTHING AND TEXTILES		5
Home Economics 224 Textiles	5	
FAMILY DEVELOPMENT		5
Home Economics 390 or 490 Infant or Child Development	5	
HOUSING AND HOME MANAGEMENT		6
Home Economics 368-9 Home Management	6	
BACTERIOLOGY 350		5
BUSINESS ADMINISTRATION 110 Accounting		5
CHEMISTRY 451 Physiological Chemistry		5
EDUCATION 304 Education Psychology		5
Arts and Sciences (See Total Requirements)		5
Electives		13-15
		89-91

Suggested electives: Home Economics 325, 355, 357, 550, 554, 572; Journalism 368.

MAJOR IN HOME ECONOMICS EDUCATION

The major in Home Economics Education is offered jointly by the School of Home Economics and the College of Education. It fulfills the requirements for teaching in both vocational and non-vocational homemaking departments of Georgia high schools. The graduate in this program is qualified to receive a four year professional certificate.

Students who have not taken home economics courses within six years prior to the date of registration for completion of requirements for a degree in this major or for professional certification must take at least 20 hours of course work in home economics.

Junior and Senior Requirements

	Hours	
CLOTHING AND TEXTILES		5
Home Economics 321 Advanced Clothing	5	
FAMILY DEVELOPMENT		10
Home Economics 390 Infant Development	5	
Home Economics 490 Child Development	5	
FOODS AND NUTRITION		10
Home Economics 306 Advanced Foods	5	
Home Economics 351 Nutrition	5	
HOUSING AND HOME MANAGEMENT		14
Home Economics 344 Home Nursing	3	
Home Economics 364 Family Economics	5	
Home Economics 368-9 Home Management	6	
HOME ECONOMICS Electives		3
Home Economics 357 Food Demonstration or	3	
Home Economics 377 Practical Furnishings	3	
EDUCATION		30
Education 455 Adolescent Psychology	5	
Education 335.2 Home Economics Curriculum Planning	5	
Education 336.2 Home Economics Teaching Procedures	5	
Education 346-7-8.2 Home Economics Apprentice Teaching	15	
Arts and Sciences (See Total Requirements)		10
Electives		7-9
		89-91

Prerequisites for Education 335.2 and 336.2 are as follows: Home Economics 224, 293, 306, 343, 390 or 490; an over-all average grade of 75 or above; evidence of fitness for teaching.

Suggested Electives: Home Economics 359, 370, 461; Art 255; Food Technology 363 or 409; Horticulture 308, 311; Journalism 368; Landscape Architecture 313; Poultry 160; Psychology 358; Physical Education 118, 385, 387; Sociology 427; Education 133, 332.

MAJOR IN EXPERIMENTAL FOODS

This major offers training for students interested in educational, experimental, and promotional work in commercial fields, such as home service work, commercial food demonstration, or testing laboratories. Students may confer with adviser in the selection of a sequence of electives to meet individual professional interests.

Junior and Senior Requirements

		Hours
FOODS AND NUTRITION		31
Home Economics 306	Advanced Foods	5
Home Economics 351	Nutrition	5
Home Economics 357	Food Demonstration	3
Home Economics 370	Food Buying	3
Home Economics 452 or 352	Advanced Nutrition	5
Home Economics 550	Experimental Foods	5
Home Economics 554	Experimental Foods	5
FAMILY DEVELOPMENT		5
Home Economics 390 or 490	Infant or Child Development	5
HOUSING AND HOME MANAGEMENT		11
Home Economics 368-9	Home Management	6
Home Economics 546 or 547	Equipment Testing or Lighting and Refrigeration	5
BACTERIOLOGY 350		5
EDUCATION Elective		5
SPEECH or JOURNALISM		5
Arts and Sciences (See Total Requirements)		10
Electives		17-19
		89-91

Home Economics 306 should be taken in the sophomore year, if possible. Suggested Electives: Art 208; Chemistry 122, 451; Food Technology 363; Geography 358; Education 304 or 336; Journalism 368.

MAJOR IN FAMILY DEVELOPMENT

Concentration in Family Living

Preparation for work with agencies dealing with family adjustment, child serving agencies, or positions requiring professional work in family life as a focus. Students interested in research or college teaching in this area will be prepared for advanced study with this major.

Concentration in Child Development

Preparation for work with young children through public and private nursery schools, child serving agencies, and childrens' clinics and hospitals. Students interested in research or college teaching in this area will be prepared for advanced study with this major.

Junior and Senior Requirements

		Hours
FAMILY DEVELOPMENT		30
Home Economics 490	Child Development	5
Home Economics 492	Child Guidance	5
Home Economics 496	Parent Education	5
	Concentration in Family Living or	
Home Economics 461	The Family	5
Home Economics 493	Family in the Community	5
Home Economics 495	Contemporary Family	5
	Concentration in Child Development	
Home Economics 591	Pre-School Activities	5
Home Economics 311-12b	Nursery School Practicum	10

FOODS AND NUTRITION		10
Home Economics 306 or 350 Advanced Foods	5	
Home Economics 351 or 358 Nutrition	5	
HOUSING AND HOME MANAGEMENT		6
Home Economics 368-369 Home Management	6	
HOME ECONOMICS Elective		5
Arts and Sciences (See Total Requirements)		15-20
Electives		18-28
		89-91

Home Economics 224, 343, and 390 are required; if possible, they should be taken in the sophomore year.

Home Economics 594 is also required for the Concentration in Child Development.

MAJOR IN GENERAL HOME ECONOMICS

The general major is planned to give a broad cultural course and training for homemaking. There are fewer required courses and opportunity exists for many electives. Specialized interests may be followed through careful choice of electives.

Junior and Senior Requirements

	Hours	
CLOTHING AND TEXTILES		10
Home Economics 224 Textiles	5	
Home Economics 321 Advanced Clothing	5	
FAMILY DEVELOPMENT		10
Home Economics 390 Infant Development	5	
Home Economics 490 Child Development	5	
FOODS AND NUTRITION		15
Home Economics 306 or 350 Advanced Foods	5	
Home Economics 351 or 358 Nutrition	5	
Foods Elective	5	
HOUSING AND HOME MANAGEMENT		9
Home Economics 344 Home Nursing	3	
Home Economics 368-9 Home Management	6	
HOME ECONOMICS Electives		10
Arts and Sciences (See Total Requirements)		10
Electives		30-32
		94-96

General majors must select at least 15 elective hours in one field over and above specified courses.

MAJOR IN HOME ECONOMICS AND ART

The major in Home Economics and Art is offered jointly by the School of Home Economics and the Department of Art. It is designed to provide an opportunity for specialization in Interior Design, Crafts, Ceramics, Drawing and Painting, or Commercial Art.

Junior and Senior Requirements

		Hours
CLOTHING AND TEXTILES		10
Home Economics 224 Textiles	5	
Home Economics 321 Advanced Clothing	5	
FAMILY DEVELOPMENT		5
Home Economics 390 or 490 Infant or Child Development	5	
FOODS AND NUTRITION		10
Home Economics 306 or 350 Advanced Foods	5	
Home Economics 351 or 358 Nutrition	5	
HOUSING AND HOME MANAGEMENT		17-19
Home Economics 343 Household Equipment	5	
Home Economics 368-9 Home Management	6	
Home Economics 376 or 480 Housing	3-5	
Home Economics 377 Practical Furnishings	3	
HOME ECONOMICS Electives		10
ART Electives		10-15
Arts and Sciences (See Total Requirements)		15
Electives		7-14
		89-91

Art 120, 130, and 140 and 10 other hours of Art electives are also required in the freshman and sophomore program.

The art electives may be selected with approval of adviser from the areas of Interior Design, Crafts, Ceramics, Drawing and Painting, or Commercial Design.

MAJOR IN HOME ECONOMICS JOURNALISM

The major in Home Economics Journalism is offered jointly by the School of Home Economics and the School of Journalism. It is designed to prepare students for journalistic work related to home economics with newspapers, magazines, radio, television or other areas of the communications field.

Junior and Senior Requirements

		Hours
FAMILY DEVELOPMENT		5
Home Economics 390 or 490 Infant or Child Development	5	
FOODS AND NUTRITION		10
Home Economics 306 or 350 Advanced Foods	5	
Home Economics 351 or 358 Nutrition	5	
HOUSING AND HOME MANAGEMENT		11
Home Economics 343 Household Equipment	5	
Home Economics 368-9 Home Management	6	
HOME ECONOMICS Electives		15
PSYCHOLOGY 371		5
JOURNALISM 558		5
JOURNALISM Electives		25
Arts and Sciences (See Total Requirements)		5
Electives		10-12
		91-93

Required are Home Economics 224 and Journalism 101 (or 350); if possible, they should be taken in the sophomore year.

Home Economics Electives. Select 15 hours from one of these groups: (1) 355, 357, 377, 397; (2) 321, 363, 561, 568; (3) 364, 490, 493, 495, 496.

Journalism Electives. Select at least 10 hours in one of three areas listed below; then expand in one area or combine two areas.

Magazine Writing: Journalism 456 and 590, 377, 351, 537.

Radio-Television: Journalism 580 and 585, 386, 583, 584; Speech 150.

Advertising and Public Relations: Journalism 557 and 577, 576, 575, 578; Business Administration 562, 563, 564.

HOME DEMONSTRATION

The degree of Bachelor of Science in Home Economics is required for extension home demonstration work. Students preparing for Agricultural Extension Service should take Agricultural Extension 313 and 314.

Suggested electives: Food Technology 409; Horticulture 101; Poultry 160; Landscape Architecture 313; Speech 150; Journalism 368 and 580; Home Economics 354, 355, 364, 370, 377, 475, and 546.

MAJOR IN HOUSING AND MANAGEMENT

This major provides training for careers in Home Service, management of multiple-unit or public housing projects, and assistants to architects, decorators, and household appliance companies.

Junior and Senior Requirements

		Hours
HOUSING AND HOME MANAGEMENT		22
Home Economics 364 Family Economics	5	
Home Economics 368-9 Home Management	6	
Home Economics 376 Housing	3	
Home Economics 377 Practical Furnishings	3	
Home Economics 480 Housing Developments	5	
Select from the following:		10-20
Home Economics 546 Equipment Testing	5	
Home Economics 547 Lighting and Refrigeration	5	
Home Economics 475 Advanced Furnishings	5	
Home Economics 570 Consumer Problems	5	
CLOTHING AND TEXTILES		5
Home Economics 321 Advanced Clothing	5	
FAMILY DEVELOPMENT		5
Home Economics 390 or 490 Infant or Child Development	5	
FOODS AND NUTRITION		10
Home Economics 306 Advanced Foods	5	
Home Economics 351 Nutrition	5	
Arts and Sciences (See Total Requirements)		10
Electives		12-26
		89-91

Electives must be approved by major professor and should be scheduled after requirements of this major have been satisfied. Suggested electives: Agricultural Engineering 104-105; Art 131, 290, 387, 389; Journalism 376; Landscape Architecture 155, 102, 313; Sociology 409, 431; Physics 128, 370; Home Economics 564.

MAJOR IN NUTRITION

This major provides a background for various types of nutrition work such as research, teaching, or as a nutrition specialist in the extension service. It prepares the student for graduate work in nutrition or for a research assistantship in a commercial organization or an educational institution.

Junior and Senior Requirements

		Hours
FOODS AND NUTRITION		30
Home Economics 306 Advanced Foods	5	
Home Economics 351 Nutrition	5	
Home Economics 353, 452, and 458 Advanced Nutrition	15	
Home Economics 550 or 554 Experimental Foods	5	
CLOTHING AND TEXTILES		5
Home Economics 224	5	
FAMILY DEVELOPMENT		5
Home Economics 390 or 490 Infant or Child Development	5	
HOUSING AND HOME MANAGEMENT		6
Home Economics 368-9 Home Management	6	
BACTERIOLOGY 350		5
CHEMISTRY 451		5
EDUCATION Elective		5
SPEECH or JOURNALISM		5
Arts and Sciences (See Total Requirements)		10
Electives		15-17
		89-91

Required are Home Economics 306; Chemistry 121, 122, 260; Human Biology 101; Physics 120; if possible, these courses should be taken prior to the junior year.

Suggested Electives: Business Administration 370; Chemistry 223, 380; French 101, 102; Food Technology 363, 409; German 101, 102; Home Economics 354, 355, 359, 372, 374, 453, and 456; Journalism 368, 377; Mathematics 100, 101, 110, 354; Speech 150.

COURSES OF INSTRUCTION

The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated courses meet five hours a week and carry five hours credit.

101. Home Economics Orientation. 1 hour. *The Staff.*

A course offered for entering freshmen to help them in personal development, analysis of interests and aptitudes, and vocational planning.

CLOTHING AND TEXTILES

120. Clothing Selection and Construction. Two lectures and three double laboratory periods. (Open to non-majors). *Miss Luffman* and *the Staff.*

Application of basic principles to selection of commercial patterns, fabrics, and ready-to-wear; fundamental techniques in garment construction; grooming and care of clothes.

223. CLOTHING FOR THE FAMILY. 3 hours. Two lectures and one double laboratory period. Prerequisite: Home Economics 120 and 224. Required of clothing and textile majors. *Miss Luffman* and *Miss Johnson.*

Selection and care of textiles for home and family use; planning family wardrobe; construction of garments for family members.

224. ELEMENTARY TEXTILES. Two lectures and three double laboratory periods. Prerequisite: Chemistry 121. (Open to non-majors). *Miss Armstrong* and *Miss Luffman.*

Textile fibers, yarns and fabrics, their source, production, manufacture, properties and identification; selection, use and care of modern textiles; special problems; field trips.

321. ADVANCED CLOTHING SELECTION AND CONSTRUCTION. Two lectures and three double laboratory periods. Prerequisites: Home Economics 120, 224 or equivalent, and Art 120. *Miss Armstrong, Miss Luffman,* and *Miss Johnson.*

Advanced dressmaking techniques in handling wool and various types of textiles, in fitting and in alteration; selection of garments considering cost and personality, figure and color types of the individual; study of the fashion industry.

325. CLOTHING SELECTION AND GROOMING FOR MEN AND WOMEN. 3 hours. For non-majors (men and women) or majors whose curriculum does not require Home Economics 321. *Miss Armstrong, Miss Johnson* and *Miss Luffman.*

Selection of appropriate and becoming clothing for men and women with emphasis on individual problems; aesthetic, socio-economic and psychological factors related to clothing, grooming and care of clothing.

360. ADVANCED TEXTILES. Two lectures and two three-hour laboratory periods. Prerequisites: Home Economics 224 and Chemistry 260 or equivalent. *Miss Armstrong.*

Advanced study of textiles with emphasis on the newer processes, fibers and finishes; analysis of fibers and fabrics; term problem; field trips.

363. COSTUME DESIGN. Two lectures and three double laboratory periods. Prerequisite: Home Economics 321. With approval of the instructor, may be elected by students majoring in fields other than Home Economics. *Miss Johnson.*

Developing originality and creative ability in designing clothing for various personalities, figures, ages, occasions; historic and current fashion influences employed.

463. HISTORIC COSTUME. Prerequisite: Home Economics 321. With consent of the instructor, may be elected by students of advanced standing who are non-majors. *Miss Johnson.*

A study of historic costume from ancient times to the present; socio-economic, political and religious influences on dress.

561. CLOTHING AND TEXTILE ECONOMICS. Prerequisites: Home Economics 224 or equivalent and 321; Economics 360; or by consent of instructor. *Miss Armstrong.*

Organization, functions and interrelations of the various industries concerned with production and distribution of textiles and clothing; consumption of clothing and household textiles; field trips.

562. TAILORING. Two lectures and three double laboratory periods. Prerequisites: Home Economics 224 or equivalent and 321. *Miss Armstrong* and *Miss Johnson.*

Planning and making a tailored ensemble; techniques employed in custom made garments; speed methods in tailoring.

563. ILLUSTRATIVE MATERIALS IN CLOTHING AND TEXTILES. Two lectures and three double laboratory periods. Prerequisites: Home Economics 321 or equivalent and one other approved senior division course in Clothing and Textiles or consent of instructor. *Miss Armstrong* and *Miss Johnson.*

Preparation of illustrative materials on problems related to selection, construction, and care of clothing and textiles. Designed for teachers, home demonstration agents, and other specialized groups.

564. PATTERN DESIGN AND DRAPING. Two lectures and three double laboratory periods. Prerequisite: Home Economics 321. *Miss Armstrong* and *Miss Johnson.*

Making and using a master pattern in designing garments; designing through draping; emphasis on artistic effects in color, line and texture; application of art principles.

568. (BUSINESS ADMINISTRATION) RETAIL MERCHANDISE INFORMATION. Prerequisite: Home Economics 321 or Economics 360; or consent of instructor. *Miss Armstrong.*

Study of textile products for apparel and household use; factors related to buying, displaying, advertising, and selling textile fabrics and ready-to-wear.

865. CLOTHING AND TEXTILE PROBLEMS. Two lectures, laboratories arranged. Prerequisites: Home Economics 321 and one other approved senior division course, or consent of instructor. *Miss Armstrong.*

New developments in textile products; new techniques in clothing construction; trends in clothing selection. Individual problems based on students' professional needs.

867. CLOTHING AND TEXTILE RESEARCH METHODS. One conference and four library or laboratory periods. Prerequisites: Two approved graduate courses in Clothing and Textiles or consent of the instructor. *Miss Armstrong.*

The philosophy of research applicable to clothing and textile studies, methodology, and interpretation of research literature.

FAMILY DEVELOPMENT

293. (SOCIOLOGY) FAMILY RELATIONS. *Mr. Broderick, Mr. Fowler, and Miss Sheerer.*

Designed to assist students in preparation for marriage and family living. Personal development and family living, planning for marriage, achieving a happy marriage.

295. (PSYCHOLOGY) INTRODUCTION TO CHILD DEVELOPMENT. Three lectures, three periods of observation in the Nursery School and Infant Center, and one period of laboratory discussion. *Mrs. Allison* and *Miss Sheerer.*

An elementary survey of child development from birth to age of six. Includes physical, social, emotional, and intellectual development.

311b and 312b. NURSERY SCHOOL PRACTICUM. 10 hours. Prerequisite: Home Economics 490 or 295 and Home Economics 591. *Miss McPhaul, Mrs. Allison,* and *Miss Harden.*

Nursery School teaching experience is provided in the Nursery School.

390. PRENATAL AND INFANT DEVELOPMENT. Four lectures and two periods of supervised observation in the Infant Center. *Mr. Fowler* and *Miss LaBoon.*

A study of the young family and its early adjustments, particularly with relation to the preparation for and adjustment to children.

397. CREATIVE MATERIALS AND ACTIVITIES IN THE HOME. Prerequisite: Art 120. *Miss LaBoon.*

Functions of creative materials and activities in the home in developing a closer family unity; types of creative activities which can be carried on in the average home with minimum of special materials, equipment, and expenditure.

461. THE FAMILY. (See Sociology).

490. (PSYCHOLOGY) DEVELOPMENT OF THE YOUNG CHILD. Three lectures and four periods of supervised observation in the Nursery School. Prerequisite: Psychology 101 or a satisfactory substitute. *Miss McPhaul, Miss Young, Miss Harden* and *the Nursery School Staff.*

The physical, mental, emotional, and social development of the pre-school child; the environmental factors influencing the development of the young child and special reference to techniques and guidance.

492. CHILD GUIDANCE. Three lectures and four periods of supervised observation in the Nursery School and Infant Center. Prerequisite: Work in child development, child psychology, or closely related courses. *Miss Sheerer*, and *the Staff*.

The guidance of young children as based upon a knowledge of their maturation in the pre-school years. Principles, techniques and facilities for guidance of young children.

493. THE FAMILY IN THE COMMUNITY. Prerequisite: Consent of the instructor. *Mr. Broderick* and *Mr. Fowler*.

Factors affecting family life, including national, state, and local legislation and services, mass media of communication, and programs in churches, schools, and communities.

495. CONTEMPORARY FAMILY LIFE. Prerequisite: Work in child development, family relations, or closely related courses. *Mr. Broderick* and *Mr. Fowler*.

A study of the interpersonal relationships of family members at each stage in the family life cycle and of the changing American family.

496. (EDUCATION) PARENT EDUCATION. Prerequisite: Home Economics 490 or 295 or consent of instructor. *Mr. Fowler*.

Working philosophy for parent education; skills in procedure and techniques for working with parents. Opportunity for observation and participation with parent groups, parent conferences, and home visitations.

591. CREATIVE ACTIVITIES FOR THE PRE-SCHOOL CHILD. Prerequisite: Home Economics 490 or 295 and one additional related senior division course. *Miss McPhaul, Miss Harden*, and *Nursery School Staff*.

Course covers selected types of creative activities for children of the pre-school years, including literature, art, music, nature study and other materials for young children. Practical experience with these in Nursery School.

594. NURSERY SCHOOL LABORATORY PROBLEMS. Four lectures and two periods of supervised practice in the Nursery School. Prerequisite: Home Economics (Psychology) 490 or 295 and one additional related senior college course. *Miss McPhaul* and *Nursery School Staff*.

Instruction and observation in the basic principles of group management of children from two through five years; guidance in selection of equipment and play materials; administration and organization of a nursery school; visitation of pre-school centers.

798-799. INTERNSHIP IN NURSERY SCHOOL ADMINISTRATION. Prerequisites: Home Economics 490, 492, and 594 or equivalent. *Miss McPhaul* and *the the Staff*.

Instruction, observation, and directed experience in the various phases of Nursery School administration, including program, parent relations, physical plant, equipment, supplies, and finance.

890. RESEARCH IN FAMILY OR CHILD DEVELOPMENT. Prerequisite: Home Economics 490 and one additional approved senior division course. *Mr. Broderick* and *Miss Young*.

Techniques of research; critical evaluation of research studies; planning and developing projects; and research writing in the fields of family and child development.

892. (PSYCHOLOGY) BEHAVIOR PROBLEMS IN CHILDREN. Prerequisite: Home Economics 490 or Education 452. *Miss Sheerer* and *Miss Young*.

The child's adjustment to his environment with a consideration of the causes, treatment, and prevention of behavior problems. Utilization of case materials. Research problems in the field will be carried out by the students.

893. ADJUSTMENT IN HOME AND FAMILY RELATIONSHIPS. Prerequisite: Courses in family life, child development, or psychology, and consent of the instructor. *Miss Sheerer*.

A study of major areas of adjustment in marriage and family relationships, problems of adjustment, and philosophy and techniques for family counseling.

894. SEMINAR IN CHILD AND FAMILY DEVELOPMENT. Prerequisite: Two senior division courses in Family Development or equivalent. *Mr. Broderick*.

Survey of current literature on selected topics in Family and Child Development; discussion of current trends in the field; reports and discussion on selected topics; use of resource materials in the field.

FOODS AND NUTRITION

113. ELEMENTARY NUTRITION. For non-majors. *Miss Newton.*

The fundamental principles of nutrition and their application to every day living. A study of food selection to meet the nutritive requirements of individuals, families and groups.

115. FAMILY MEAL PREPARATION AND SERVING. Two lectures and three two-hour laboratory periods. *Miss Moore* and *Mrs. Whitehead.*

Introductory course in food preparation based on the planning, preparation, and serving of nutritious and palatable meals for the family.

304. NUTRITION EDUCATION FOR TEACHERS. 3 hours. Prerequisite: Senior college standing. *Miss Beall* and *Staff.*

A study of the diet habits of Georgia school children and the relation of nutrition to health. Emphasis is placed on how teachers can enrich school and community programs and improve the health of school children through nutrition education.

306. FOODS. Two lectures and three laboratory periods. Prerequisite: Home Economics 115, and Chemistry 260. *Miss Moore.*

Principles of cookery through analysis of basic recipes; the application of principles in preparation of commonly used foods; evaluation of products. Practical examination required.

350. ADVANCED MEAL PLANNING AND SERVING. Two lectures and three double laboratory periods. Prerequisite: Home Economics 115. *Miss Moore* and *Mrs. Whitehead.*

The planning, preparation, and serving of meals for the family and for special occasions. Selection of food and principles of cookery is emphasized.

351. FOUNDATIONS OF NUTRITION. Two lectures and three double laboratory periods. Prerequisite: Chemistry 260 and Home Economics 306. *Miss Newton.* (Home Economics 306 may parallel this course.)

The requirement of different individuals for energy, protein, minerals, and vitamins; food as a source of daily requirements; and the relation of food and the state of nutrition of an individual to physical fitness.

353. NUTRITION. Two lectures and three double laboratory periods. Prerequisite: Home Economics 306, 351, and Chemistry 451. *Miss Newton.*

The chemical and physical changes involved in the digestion and metabolism of foods. Nutritive value of foods; relative costs of foods; family dietary calculations.

354. QUANTITY COOKERY. One lecture and four double laboratory periods. Prerequisite: Home Economics 306. *Mrs. Whitehead.*

A study of cookery methods applicable to the preparation of foods for institutional or quantity service. Provides for use of institutional equipment, determination of food costs, experience in large cafeteria, and the planning and serving of meals.

355. CATERING. Informal laboratory, equivalent to two lectures and three double laboratory periods. Prerequisite: Home Economics 350, 306, or consent of instructor. *Mrs. Whitehead.*

The planning, preparing, and serving of teas, luncheons, dinners and banquets to large groups. Includes entertaining in the home.

357. FOOD DEMONSTRATION. 3 hours. Three double laboratory periods. Prerequisite: Home Economics 306 or 350. *Miss Moore.*

A continuation of Foods 306 or 350. Taught by student demonstrations which illustrate principles of cookery. Major emphasis is on demonstration techniques.

358. INDIVIDUAL AND FAMILY NUTRITION. Three lectures and two laboratory periods. Prerequisite: Home Economics 115. *Miss Newton.*

A study of nutrition needs of the family and its individuals. Includes a study of food cost in relation to nutritive value. Open to all students.

370. FOOD SELECTION AND BUYING. 3 hours. *Miss. Moore.*

A study of sources, comparative values, and storage of foods for home use.

452. ADVANCED NUTRITION. Three lectures and two double laboratory periods. Prerequisite: Home Economics 351 and Chemistry 451 or equivalents. *Miss Newton.*

Digestion and metabolism as related to nutritional status; study and evaluation of low-cost diets. Methods in vitamin assay, blood chemistry and urinalysis.

453. NUTRITION IN DISEASE. Prerequisite: Home Economics 353 or 452. *Miss Newton.*

The modification needed in the normal diet for the treatment of various diseases. Special emphasis is given to the study of digestive diseases, diabetes, diseases of the blood and to general malnutrition.

455. NUTRITION IN INFANCY AND CHILDHOOD. Prerequisite: Home Economics 350 and 358 or equivalents. *Miss Newton.*

Fundamental principles of nutrition during infancy and early childhood. Laboratory work in infant laboratory and nursery school.

458. READINGS IN NUTRITION. Prerequisite: Home Economics 351 or consent of instructor. *Miss Newton.*

Recent developments and the present status of knowledge on selected topics from the field of nutrition. The course is designed specially for those who wish to bring their knowledge up to date.

550. INTRODUCTION TO EXPERIMENTAL FOODS. Two lectures and two three-hour laboratory periods. Prerequisite: Home Economics 306, 351 or consent of instructor. *Mrs. Hood* and *Miss Moore.*

Study of physical and chemical properties and changes in foods that influence the quality of foods and food products. Experimental methods used on preparation of gels, jellies, egg products, fruits and vegetables and cereal products.

554. EXPERIMENTAL FOODS. Two lectures and two three-hour laboratory periods. Prerequisite: Home Economics 306, 351 or consent of instructor. *Mrs. Hood* and *Miss Moore.*

Influence of physical and chemical characteristics of meats, batters, doughs and fats on the quality of the foods and food products.

850. SEMINAR IN FOODS AND NUTRITION. Prerequisite: One graduate course in foods or nutrition and consent of instructor. *Mrs. Hood* and *Miss Newton.*

Survey of current literature on selected topics in food and nutrition. Organized to use classic studies as background material for each topic.

854. SPECIAL TOPICS IN FOODS AND NUTRITION. Prerequisite: One graduate course in foods or nutrition and consent of instructor. *Mrs. Hood* and *Miss Newton.*

Individual investigation of problems related to foods. Designed to develop initiative in the student in seeking and/or compiling information in a field of special interest.

857. INTRODUCTION TO RESEARCH IN FOODS AND NUTRITION. Prerequisite: One graduate course in foods or nutrition or consent of instructor. *Mrs. Hood* and *Miss Newton.*

Individual investigation of selected problems in the major field.

858. RESEARCH IN FOODS AND NUTRITION. Prerequisite: Home Economics 857 or equivalent. *Miss Newton* and *Mrs. Hood.*

The planning and conducting of an individual research problem under supervision.

INSTITUTIONAL MANAGEMENT

372. INSTITUTION MANAGEMENT. Prerequisite: Home Economics 343. *Mrs. Whitehead.*

A study of the problems involved in the management and organization of public and private institutions as hospitals, school food departments, and commercial units; selection of material and equipment; planning and placing equipment in food units.

374. INSTITUTIONAL FOOD PURCHASING. *Mrs. Whitehead.*

A study of storage, net yields, specifications, and grading of food products; food cost control and distribution.

572. ADVANCED INSTITUTION MANAGEMENT PRACTICE. Two conference and two three-hour laboratory periods. Prerequisite: Home Economics 372, 354, and 374. *Mrs. Whitehead.*

Study of management and of cost control in the college cafeterias. Practice in management of the dining hall. Hours for conference and laboratory work to be arranged.

HOUSING AND HOME MANAGEMENT

175. HOME DECORATING AND FURNISHING. Prerequisite: Art 120. *Miss Wilson.*

A basic course in furnishing the home for contemporary living. Students have opportunity to apply design principles in planning furnishings for homes.

343. SELECTION, USE, AND CARE OF HOUSEHOLD EQUIPMENT. Two lectures and three double laboratory periods. *Mrs. Edwards.*

A study of household equipment in relation to the homemaker's needs. Basic information in kitchen and laundry planning and home lighting.

344. HOME NURSING. 3 hours. Two lectures and one laboratory period. *The Staff.*

The principles and techniques for home care of the sick.

364. PRINCIPLES OF FAMILY ECONOMICS. Prerequisite: Economics 105. *Miss Mize* and *Miss Jenkins.*

Changes in economic requirements during the family life cycle; forces affecting the economic welfare of families in this country; management of family financial resources; relationships between level of family living and the national economy.

368. HOME MANAGEMENT. 3 hours. Three lectures. Prerequisite: Home Economics 343, 306 or 350, 351 or 358. *Miss Jenkins* and *Miss Wilson.*

A study of the management of family resources, time, money and effort as they affect family living. The course parallels 369 but may be taken separately by non-majors.

369. HOME MANAGEMENT RESIDENCE. 3 hours. Informal laboratory. Prerequisites: Home Economics 306 or 350, 351 or 358, 343. *Miss Jenkins, Miss Wilson,* and *Mrs. Quattlebaum.*

A practical application of the principles involved in 368. The informal laboratory, living in a home management house, provides opportunity for students to experiment with all phases of homemaking.

376. HOUSING. 3 hours. Three lectures. Prerequisite: Home Economics 175, 343, or consent of the instructor. *Mrs. Edwards.*

Present-day housing needs from the standpoint of health, safety, environment, finance, ownership; types of dwellings; minimum standards.

377. PRACTICAL HOME FURNISHINGS. 3 hours. Three double laboratory periods. Prerequisite: Home Economics 175. *Miss Wilson* and *Staff.*

A course dealing with the refinishing of furniture and construction of furnishings for the home; a study of woods and wood finishes used for furniture; upholstery techniques; making curtains, draperies, slipcovers.

475. HOME DECORATING AND FURNISHING. Three lectures and two double laboratory periods. Prerequisite: Home Economics 175, 376, or 480 or equivalent; Art 131; or consent of instructor. *Miss Wilson.*

A study of decoration and furnishing in the past and present with applications to contemporary interiors.

480. HOUSING DEVELOPMENTS. Prerequisite: Home Economics 175, 343 and a senior division course in social sciences or consent of the instructor. *Mrs. Edwards* and *Miss Mize.*

Development of modern housing as related to family welfare; to health, safety, delinquency, social progress. A survey of housing problems; development of legislation; policies and programs; social and economic trends.

546. HOUSEHOLD EQUIPMENT TESTING. Prerequisite: Physics 120 and Home Economics 343. *Mrs. Hood* and *Miss Mize.*

The operation, care and arrangement of equipment; the measurement and testing of factors governing the efficiency of different types of equipment.

547. HOME LIGHTING AND REFRIGERATION. Prerequisite: Home Economics 343. *Mrs. Hood* and *Miss Mize.*

Application to home situations of recent developments in lighting and in refrigeration.

570. CONSUMER PROBLEMS. Prerequisite: Home Economics 368-369. *Miss Mize* and *Miss Jenkins*.

Problems of the household buyer; intelligent selection of goods on modern market; standards of labeling as safeguards in buying; family income and problems of distribution.

887. RESEARCH IN FAMILY HOUSING. Prerequisite: At least two senior division courses in housing or related field. *Miss Mize*.

Application of experimental data as obtained from literature reviews and discussions to the solution of practical problems in family housing.

OTHER GRADUATE COURSES

921. PROBLEMS IN HOME ECONOMICS. Prerequisite: Three graduate courses in Home Economics and consent of major professor. *The Staff*.

The course is designed to provide individual guidance in the development of a significant project related to the student's field of work. A written report of the problem or project will be required.

930. THESIS RESEARCH.

THE SCHOOL OF VETERINARY MEDICINE

THOMAS JOHN JONES, B.S.A., D.V.M., M.S.A., Ph.D., *Dean*

HISTORY

The University of Georgia first offered a degree course in Veterinary Medicine in September, 1918, and graduated the first class in 1922. This course was abolished in June, 1933, and no work in the field was offered until the present school was established in August, 1946. Since its establishment the school has shown consistently favorable development. It became officially recognized as an accredited institution by the Council on Education of the American Veterinary Medical Association in May, 1950. The first class was graduated in June, 1950.

A new modern building which houses all departments of the school was completed in March, 1953. It is well designed and of ample size to serve all functions related to education and training in veterinary medicine. The most modern facilities are to be found in its classrooms and student laboratories, seminar rooms, library, administrative and departmental offices, auditorium, large and small animal clinics and hospitals, and elsewhere throughout the building. In addition, space is conveniently provided for considerable research study.

POLICIES

In November, 1948, at the Southern Governor's meeting in Savannah, Georgia, a compact for regional education in veterinary medicine was ratified. Accordingly, the states of Maryland, Virginia, North Carolina and South Carolina are assigned by the Regional Council on Education to the University of Georgia, School of Veterinary Medicine. Approximately ten students who meet the qualifications from each of those states will be accepted for enrollment in veterinary medicine each September, while twenty qualified students will be accepted from the state of Georgia. This will give a class of 60 new students each year, making a total of 240 students in the school as a whole.

In order to gain admission to the School of Veterinary Medicine, applicants from the above-named states will apply as follows: Application blanks must be secured from the committee on veterinary student selection at the Land Grant Colleges in the respective states. Requests for such blanks should be made by Maryland applicants to Dr. D. O. Wiersig, University of Maryland, College Park, Maryland; by Virginia applicants to Dr. Paul Farrier, Registrar, Virginia Polytechnic Institute, Blacksburg, Virginia; by North Carolina applicants to Dr. H. B. James, Director of Instruction, College of Agriculture, Raleigh, North Carolina; by South Carolina applicants to Prof. J. R. Cook, Animal Husbandry Department, Clemson Agricultural College, Clemson, South Carolina; and by Georgia applicants to Mr. Walter Danner, Registrar, University of Georgia, Athens, Georgia.

All applicants are required to complete the pre-veterinary requirements by the end of the spring quarter or semester preceding the fall that they wish to enter the School of Veterinary Medicine.

OPPORTUNITIES FOR VETERINARIANS

There are numerous fields of service, all of which are expanding, open to graduates of approved schools of veterinary medicine. At present a well qualified veterinarian may enter any one of the following fields of endeavor:

PRIVATE PRACTICE. The vast majority of veterinarians in the United States are in private practice; however, there are still many desirable locations for veterinarians who wish to practice the profession.

GOVERNMENT SERVICE. The Agricultural Research Service and Agriculture Marketing Service, U.S. Department of Agriculture, provide many attractive opportunities under the protection of Civil Service in federal meat inspection, poultry inspection, quarantine, control and eradication of animal diseases, and research in diseases of animals. Veterinarians are also employed in the Veterinary Public Health Section of the United States Public Health Service with Civil Service status.

VETERINARY CORPS OF THE U. S. ARMY AND U. S. AIR FORCE. Veterinary officers in the U. S. Army and U. S. Air Force are commissioned with the rank of first lieutenant up to and including colonel.

STATE VETERINARIANS. Most states have state veterinarians whose official duty is the regulation and control of preventable diseases in the state, with a corps of veterinarians under their supervision. County veterinarians have a similar work in a more restricted area.

MUNICIPAL VETERINARIANS. Many cities employ veterinarians to inspect abattoirs and butcher shops, and meat and dairy products and to serve on municipal boards of health.

TEACHERS IN AGRICULTURAL AND VETERINARY COLLEGES. There is always a demand for well-trained men in these positions, and they command good salaries.

RESEARCH AND INVESTIGATION IN ANIMAL DISEASES. At the state Agricultural experiment stations veterinarians are employed who are fitted for original research in the broad field of animal disease.

COMMERCIAL WORK. Veterinarians are employed by large commercial firms to serve on research teams, supervise the health of animal colonies, promotional and sales work, and in the preparation of biological products (tuberculin, serums, vaccines, anti-toxins, etc.) for use in both human and veterinary medicine.

STOCK FARM MANAGERS. A number of veterinarians are serving as managers on stock farms, particularly in breeding districts.

VETERINARIANS FOR ZOOS. As a result of the increased interest in wild animals, many zoological societies employ full time veterinarians to look after the health and sanitary conditions of their animals.

ARTIFICIAL BREEDING SOCIETIES. One of the newest places of employment for veterinarians is the program of artificial insemination, where they direct the work and assume responsibility for the health of the animals involved.

POULTRY INDUSTRY. The ever-increasing economic importance of the poultry industry in this nation demands the services of the veterinary profession. These services are concerned with a wide field of research study as well as the diagnosis and control of poultry diseases in general veterinary practice.

PRIZES, AWARDS AND HONORS

THE DONALD E. MCKINNEY CUP. This cup is presented each year to an outstanding first year student by Omega Tau Sigma fraternity. The award is made in memory of Donald E. McKinney who was a pledge member of the fraternity. The recipient of this award is selected on the basis of scholarship, leadership, and personality.

THE MARY STEWART GADD AWARD. This award is provided annually by the Women's Auxiliary of the Maryland Veterinary Medical Association. It is a prize of $25 which is awarded to the Maryland freshman who makes the highest scholastic record during the first year of study in the professional curriculum.

THE M. F. BYRD AWARD. This award is given by Alpha Psi fraternity in memory of the late M. F. Byrd who was a pledge member of the fraternity. It honors the student in the first year class of veterinary medicine who shows the most progress through the year.

THE JAMES O. SCAIFE AWARD. This award is provided by Omega Tau Sigma fraternity in memory of the late James O. Scaife, a Junior student in veterinary medicine. It is given to a Junior student whose selection is based upon scholarship, leadership, and character.

PHI ZETA HONOR SOCIETY. Phi Zeta is a national honorary society devoted to recognizing high scholastic attainment among Junior and Senior students in Veterinary Medicine. To be elected to membership, the Junior student must rank scholastically in the upper 10-per cent of his class and the Senior student must rank among the highest 25-per cent of his class members who were not elected to membership as Juniors.

THE DEAN'S CUP. This cup is awarded annually by the Dean to the member of the fourth year class who has shown the best over-all progress during his four years in the School of Veterinary Medicine.

THE UPJOHN AWARD. These awards are made annually by the Upjohn Company to the members of the fourth-year class. One is presented to the student showing greatest proficiency in large animal subjects and the other to the student most proficient in small animal subject matter. The recipients are selected by the clinical staff of the School of Veterinary Medicine.

WOMEN'S AUXILIARY. This award of $50 is given by the Women's Auxiliary of the American Veterinary Medical Association to a fourth year student in the School of Veterinary Medicine. The recipient is selected by the faculty on the basis of significance in promoting the status of the veterinary school on the campus.

THE JESSE L. ROBERTS AWARD. This honor is awarded annually by Alpha Psi fraternity to the Senior student showing greatest progress in both large and small animal clinics. It is in memory of Dr. Jesse L. Roberts, a member of Alpha Psi, who died at the end of his senior year in the veterinary school.

THE EQUINE AWARD IN LARGE ANIMAL CLINIC. This annual award is provided by Doctors A. M. Mills and J. D. Edens to honor the senior student showing greatest excellence in equine practice in the large animal clinic and hospital area. It is a silver cup with winners' names inscribed. Possession of the cup is rotated to a new winner near the end of each school year.

MOSS ESSAY CONTEST. The Moss Essay Contest is conducted by the American Animal Hospital Association and is open to students of all accredited veterinary schools in the United States. Participating contestants

submit essays on professional ethics to be judged by a committee of the American Animal Hospital Association. First, second and third prizes are awarded to respective winners in each school submitting five or more essays. A grand prize, an all expense trip to the annual meeting of the American Animal Hospital Association, is awarded to the student writing the best of all essays submitted from all schools.

SOUTHEASTERN VETERINARIAN LITERATURE AWARD. (Student Publication of the Student Chapter of the A.V.M.A.) This is a quarterly award of $5 to be given to any student of the School of Veterinary Medicine, University of Georgia, who submits the best article for publication in this magazine. Recipients are selected by the staff of the magazine.

OTHER AWARDS by individuals, commercial firms, and organizations which are not annual awards are granted on the basis designated by the donor. Upon receipt of such an award, the student body is notified.

DEGREES WITH HONORS

The degree, Doctor of Veterinary Medicine, is awarded with honors to candidates who achieve specified scholastic records. The honors and specified scholastic records are: cum laude for a grade average of 90.0 to 92.9; magna cum laude for an average of 93.0 or better; summa cum laude for a record with all grades A or A+.

GRADUATE WORK

Graduate programs in the School of Veterinary Medicine leading to the degrees, Master of Science and Doctor of Philosophy, with major study in bacteriology and master of science in veterinary pathology and parasitology, are offered to qualified veterinary graduates.

Students seeking admission to the Graduate School should apply to the Dean of the Graduate School, The University of Georgia. For more detailed information, write for The Graduate School Bulletin, The University of Georgia.

ADMISSION REQUIREMENTS FOR PROFESSIONAL COURSE OF STUDY

In order to matriculate in the School of Veterinary Medicine, a student must present a minimum of 84 to 94* quarter hours credit (exclusive of two years of Military Science or Physical Education) from an acceptable college, with grades of C or better. Candidates are selected on the basis of character, personality, scholastic achievement, and general fitness for the study of veterinary medicine. The requirements must be completed by June before admission the following September.

Entering classes in the School of Veterinary Medicine now average in excess of three years of collegiate training. A student admitted with only the minimum requirements will be competing with individuals having three or more years of college and thus better equipped for the modern professional curriculum. Students planning a career in veterinary medicine are, therefore, strongly encouraged to undertake collegiate study over and above the minimum pre-veterinary requirements, preferably leading to the baccalaureate degree in conjunction with the D.V.M. degree.

*See footnote on following page.

Minimum Program:

English—at least 15 quarter hours, including a 5 quarter hour course in oral and written composition.

Biological Science—at least 25 quarter hours, including:

Botany	10 quarter hours
Zoology	10 quarter hours
Basic Genetics	5 quarter hours

(Do not include bacteriology in the pre-veterinary curriculum)

Physical Sciences—at least 35 quarter hours, including:

Physics	5 quarter hours
Mathematics	10 quarter hours
Chemistry 20 quarter hours, including	10 quarter hours of organic chemistry.

Agriculture—one course of 3 to 5 quarter hours each in animal, dairy and try husbandry.

Social Sciences—10 quarter hours.*

There are an exceedingly large number of applicants seeking admission. In general, those having the highest scholastic rating will be given preference. It is advisable, therefore, that the student, upon entering college, decide whether he would prefer to continue his education in the College of Agriculture or in the College of Arts and Sciences, so that he may continue in a field other than veterinary medicine with a minimum loss of time in the event that he is not admitted into the School of Veterinary Medicine. Applicants must meet the admission requirements for the University, including age.

All candidates for admission into the entering class in September each year will be required to take during the preceding May or June a veterinary medical aptitude test. The results of this test will become a part of the student's credentials for admittance into the School of Veterinary Medicine.

Applicants for admission to the School of Veterinary Medicine, University of Georgia, who are known to have been dismissed from another veterinary school for any reason, shall not be accepted. Any student who shall gain entrance to the School of Veterinary Medicine by misrepresentation of the facts shall be immediately dismissed.

SCHOLASTIC REGULATIONS

In addition to regulations governing the grading system of the University (see sections on Academic Regulations and Scholastic Probation and Dismissal in the General Catalogue), students in the School of Veterinary Medicine are subject to a grade-point proficiency evaluation established by the faculty and by student body representatives of the school. A student who fails to make a scholastic average equivalent to at least 1.5 grade-points in any quarter during the professional course of study shall be placed on scholastic probation. A second probation during any subsequent quarter must be satisfactorily removed or the student may be dismissed.

*The social science requirements may be satisfied by passing the Constitutions Examination and the Examination on American and Georgia History.

The interpretation and application of the grade-point system is invested in a scholarship committee composed of members elected by and from the faculty, and one representative each, from the first, second, third, and fourth year classes in the School of Veterinary Medicine.

HONOR CODE

The students in the school of Veterinary Medicine have drawn up and are working under a code of honor which covers the three specific areas of lying, cheating and stealing. This code is administered by student representatives from each class, and faculty members are present at trials only in an advisory capacity. The aim of the code is to develop personal integrity and unquestionable honesty as well as the personal responsibilities that are so important in maintaining and improving the ethical standards of the veterinary profession.

FOUR YEAR PROFESSIONAL CURRICULUM

FIRST YEAR

FALL QUARTER

	Lec	Lab	Cr
311 Anatomy	3	15	7
404 Histology-Embryology	2	6	5
451 Physiol. Chemistry	4	2	5
300 Vet Medicine	2	0	2
	11	23	19

WINTER QUARTER

	Lec	Lab	Cr
312 Anatomy	2	12	5
405 Histology-Embryology	2	6	5
452 Physiol. Chemistry	4	2	5
380 General Microbiol.	3	4	5
	11	24	20

SPRING QUARTER

	Lec	Lab	Cr
313 Anatomy	2	12	5
406 Histology-Embrology	2	6	5
406 Physiology	4	2	5
410 Immunology	3	4	5
	11	24	20

SECOND YEAR

	Lec	Lab	Cr
425 Pathology	3	4	5
405 Parasitology	2	3	3
407 Physiology	4	2	5
422 Pathogenic Microbiology	3	4	5
	12	13	18

	Lec	Lab	Cr
426 Pathology	3	4	5
406 Parasitology	3	6	5
408 Physiology	3	5	5
430 Pharmacology	3	0	3
451 Virology	2	3	3
	14	18	21

	Lec	Lab	Cr
427 Pathology	3	4	5
407 Parasitology	3	9	5
410 Endocrinology	4	0	4
431 Pharmacology	3	2	4
403 Applied Anatomy	1	2	2
	14	17	20

THIRD YEAR

	Lec	Lab	Cr
402 Large Animal Medicine	5	0	5
410 Small Animal Medicine	3	0	3
420 Surgery	5	0	5
442 Poisonous Plants	0	4	2
475 Poultry Diseases	5	0	5
450-a Clinic Orientation	0	4	1
	18	8	21

	Lec	Lab	Cr
403 Large Animal Medicine	5	0	5
411 Small Animal Medicine	3	0	2
421 Surgery	5	0	5
424 Surgical Techniques	arr. cont'd.		
461 Clinical Pathology	3	3	4
470 Inf. & Epizootic Diseases	4	0	4
450-b Clinic Orientation	0	4	1
	20	7	21

	Lec	Lab	Cr
404 Large Animal Medicine	5	0	4
412 Small Animal Medicine	3	0	3
424 Surgical Techniques	3	6	4
416 Obstetrics & Obst. Dis.	5	0	5
471 Inf. & Epizootic Dis.	4	0	4
450-c Clinic Orientation	2	0	1
	22	6	21

SUMMER QUARTER

466. Clinics (Clinic Preceptorship—Required) 10 to 13 hours.

FOURTH YEAR

	Lec	Lab	Cr
432 Pharmacotherapeutics	3	0	3
480 Public Health	3	0	3
480 Radiology	3	0	3
462 Clinic Seminar	2	0	1
452 Large An. Clinic & Conf.	0	12	3
457 Small An. Clinics & Conf.	0	12	3
472 Path. Diagnosis & Conf.	0	12	3
	11	36	19

	Lec	Lab	Cr
484 Food Hygiene	5	0	5
485 Business & Ethics	2	0	1
463 Clinic Seminar	2	0	1
453 Large Animal Clinics & Conf.	0	12	3
458 Small Animal Clinics & Conf.	0	12	3
473 Path. Diag. & Conf.	0	12	3
	9	36	16

	Lec	Lab	Cr
450 Nutrition & Def. Dis.	5	0	5
487 Jurisprudence	2	0	1
426 Surgical Exercises	0	2	1
464 Clinic Seminar	2	0	1
454 Large Animal Clinics & Conf.	0	12	3
459 Small Animal Clinics & Conf.	0	12	3
474 Path. Diag. & Conf.	0	12	3
	9	38	17

REQUIREMENTS FOR THE DEGREE—DOCTOR OF VETERINARY MEDICINE

Upon completion of the four year professional curriculum, including a satisfactory proficiency evaluation and evidence of satisfactory performance in the required clinical courses, the student will be recommended by the Dean, through the Faculty, of the School of Veterinary Medicine for the degree of Doctor of Veterinary Medicine (D.V.M.).

DEPARTMENTS OF INSTRUCTION

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five times a week and carry five hours credit.

ANATOMY AND HISTOLOGY

Head: Westerfield. Staff: Duncan, Scott and Weinman.

311-312-313. Gross Anatomy of the Domestic Animals. 17 hours. 311: Two lectures and 16 hours of laboratory. 312-313: Two lectures and four three-hour laboratory periods each quarter. *Mr. Weinman* and *Mr. Duncan.*

Topographic and systematic study by complete dissection of the horse, ox, sheep (or goat), pig, dog, and fowl.

403. Applied Anatomy of the Domestic Animals. 2 hours. One lecture and two hours of laboratory. *Mr. Weinman* and *Mr. Duncan.*

A special study of anatomy as related to diagnosis, surgery, and obstetrics.

404-405-406. Histology and Embryology of the Domestic Animals. 15 hours. Two lectures and three two-hour laboratory periods. *Mr. Westerfield* and *Mrs. Scott.*

The development of the vertebrate from the origin of the germ cells through fertilization, cleavage, germ layers, and organogenesis with special attention to the fetal membranes, placenta, and teratology, and the microscopic structure of the various tissues and organs of the animal body correlated with gross anatomy.

410. ANATOMICAL TECHNIQUE. 2 to 5 hours. Three hours of laboratory for each credit hour. Prerequisite: Anatomy 313 and 406 or their equivalent. Offered on demand. *Mr. Westerfield* and *Staff.*

Instruction in the technique of preparation of animals for dissection as well as methods of preparation of material for microscopic study.

MICROBIOLOGY AND PREVENTIVE MEDICINE

Head: Kleckner. Staff: Foster, Tufts, VanEseltine.

Associate Staff: Schmittle.

Instruction in microbiology in the department of Microbiology and Preventive Medicine is coordinated with the curriculum of the Department of Bacteriology, College of Arts and Sciences. Members of the staff of the Department of Microbiology and Preventive Medicine serve also on the staff of the Department of Bacteriology.

200. VETERINARY HYGIENE. Prerequisites: Zoology 225, 226; Bacteriology 350. Offered to students in the College of Agriculture. *Mr. Tufts.*

A survey course dealing with the common diseases of livestock in Georgia, with emphasis on prevention and control through better management and sanitation of the farm.

373. POULTRY HYGIENE. Prerequisite: Poultry Husbandry 160 and Bacteriology 350. Offered to students majoring in poultry husbandry and others that are qualified. *Mr. Kleckner.*

A study of the common infectious, parasitic and nutritional diseases of poultry; their cause, diagnosis, prevention and control.

380. INTRODUCTORY VETERINARY MICROBIOLOGY. Three lectures and two double laboratory periods. Prerequisites: First year veterinary curriculum. Other qualified students by arrangement with the head of the department. *Mr. VanEseltine.*

Covers the fundamental principles and techniques of the science of microbiology.

410. IMMUNOLOGY. Three lectures and two double laboratory periods. Prerequisites: Bacteriology 409 and Chemistry 451 or consent of instructor. Veterinary Building. *Mr. Foster.*

Mechanisms of infection and host resistance; principles and techniques of serology.

422. PATHOGENIC BACTERIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Bacteriology 410. Veterinary Building. *Mr. VanEseltine.*

Studies in the morphological, cultural and physiological properties of the important pathogenic bacterial and mycotic agents; their relation to health and disease is emphasized.

450. VIROLOGY. Three lectures and two double laboratory periods. Prerequisites: Bacteriology 410. Veterinary Building. *Mr. Foster.*

An introduction to the virtues and rickettsiae; principles and methodology.

451. ANIMAL VIRUSES. 3 hours. Two lectures and three hours of laboratory. Prerequisite: Second year veterinary curriculum, or consent of instructor. *Mr. Foster.*

Studies on the viruses as infectious agents embracing the important viral diseases of animals including the zoonoses.

470-471. INFECTIOUS AND EPIZOOTIC DISEASES. 8 hours. Prerequisite: Third year veterinary curriculum. *Mr. Kleckner.*

A study of the infectious and epizootic diseases of animals; embracing the history, etiology, transmission, symptoms, lesions, diagnosis and treatment of each disease.

475. POULTRY DISEASES. Prerequisite: Third year veterinary curriculum. *Mr. Kleckner.*

A study of the etiology, epidemiology, pathogenesis, diagnosis, prevention, control and treatment of infectious, nutritional and parasitic diseases of poultry.

480. VETERINARY PUBLIC HEALTH. 3 hours. Prerequisite: Fourth year veterinary curriculum. *Mr. Tufts.*

A study of the sanitary, epidemiological and regulatory aspects of public health programs, particularly as human health is affected by diseases of animals transmissible to man; the veterinarian's role in local, state and federal public health organizations.

484. FOOD HYGIENE. Prerequisite: Fourth year veterinary curriculum. *Mr. Tufts.*

A survey of the municipal, state and federal regulatory measures governing transportation, slaughter, merchandising and disposal of meat, meat food products and poultry; the application of dairy hygiene and public health measures to the production, processing and distribution of clean, safe milk and dairy products.

GRADUATE COURSES

See General Catalogue, or bulletins of the College of Arts and Sciences and the Graduate School for additional staff and course listings in the Department of Bacteriology, and information on the graduate program in microbiology.

800. SEMINAR IN VETERINARY HYGIENE. 1 hour credit per quarter. Maximum of 3 accumulated credits. Prerequisites: Undergraduate major in veterinary medicine or two approved senior division courses in bacteriology or biology. *Mr. Kleckner* and *Staff.*

Weekly meetings devoted to discussion of current literature dealing with various aspects of veterinary hygiene.

816. SEMINAR IN MICROBIOLOGY. 1 hour per quarter. One hour per week maximum three quarters. Available to majors in bacteriology, zoology, plant sciences, veterinary pathology and parasitology, agriculture, with two courses in bacteriology as prerequisite. Baldwin Hall.

Meetings for discussion of research and new developments in the field.

820. ADVANCED VETERINARY MICROBIOLOGY. Prerequisites: Bacteriology 422 and 450. Veterinary Building. *Mr. Kleckner* and *Staff.*

A detailed study of the animal pathogens and their relationship to diseases.

900. PROBLEMS IN BACTERIOLOGY. Maximum credit of 10 hours. Must be preceded by at least two graduate courses in bacteriology. *The Staff.*

This course allows students to pursue intensive study under the direction of staff members, on approved problems in medical, agricultural, marine and general microbiology.

MEDICINE AND SURGERY

Head: Mills. Staff: Causey, Corley, Edens, Foy, Hoffman, Jones, Kittrell, Kreuz, McLendon, Morton, Taul. Associate Staff: Stephens.

300. VETERINARY MEDICINE. 2 hours. Two lectures per week. *Mr. Jones* and *faculty, together with prominent graduate veterinarians.*

A survey of the scope, objectives, obligations and opportunities in the broad field of veterinary science.

402-403-404. LARGE ANIMAL MEDICINE. 14 hours. *Mr. Hoffman, Mr. Mills* and *Mr. Morton.*

The pathology, diagnosis and treatment of large animal diseases.

410-411-412. SMALL ANIMAL MEDICINE. 8 hours. *Mr. Causey.*

The pathology, diagnosis and treatment of diseases of small animals.

416. OBSTETRICS AND GENITAL DISEASES. *Mr. Mills* and *Mr. Taul.*

A study of the principles of veterinary obstetrics and diseases of breeding animals.

420-421. SURGERY. 10 hours. *Mr. Causey* and *Mr. Kreuz.*

A survey of general surgical pathology, therapeutics, wound infection, asepsis, antisepsis, anesthesia, and the fundamentals of operative techniques. Including also a detailed study of special and regional surgery of both large and small animals.

424. SURGICAL TECHNIQUES. 4 hours. *Mr. Causey* and *Mr. Kreuz.*

Surgical exercises cover instructions, demonstration and practice on preoperative preparation, anesthesia, operative techniques, and post-operative care of both large and small animals.

426. SURGICAL EXERCISES. 1 hour. Fourth Year Curriculum. *Mr. Kreuz.*
Completion by each student of a minimum of fourteen preassigned surgical exercises which demonstrate his knowledge of surgical principles and surgical techniques.

480. RADIOLOGY. 3 hours. *Mr. Corley.*
The principles of radiology; darkroom, X-ray and fluoroscopic techniques; radiologic aspects of diseases and injuries in animals; and introduction to the therapeutic use of X-ray.

485. ETHICS AND BUSINESS. 1 hour. *Mr. Morton* and *faculty, together with prominent graduate veterinarians.*
A study of the ethical obligations and business aspects of veterinary practice.

487. JURISPRUDENCE. 1 hour. *Mr. Stephens.*
A survey of the laws and regulations governing veterinary medicine, including contracts, leases, liabilities, stockyard and transportation laws.

THE VETERINARY CLINICS

Clinical instruction is provided by the joint staffs of the Departments of Medicine and Surgery; Pathology and Parasitology; Microbiology and Preventive Medicine; and Physiology and Pharmacology.

Each student, for a minimum of 10 weeks during the Summer quarter, and throughout the Fourth Year term, is on duty each day during clinic hours and on call at all times, under staff supervision. Clinic conferences are supervised by the clinic staffs but entail active participation by each student.

Clinics are grouped into three major instructional units: LARGE ANIMAL—medicine and surgery, including Outpatient Clinic, Hospital and Ambulatory Farm Service; SMALL ANIMAL—medicine and surgery, including Outpatient Clinic and Hospital; PATHOLOGICAL DIAGNOSIS, encompassing—Poultry Disease, Clinical Pathology, Necropsy, and Parasitology Laboratories.

450 a-b-c. CLINIC ORIENTATION. 1 hour credit each quarter. *The Staff.*
This course is intended to prepare the student for clinic preceptorship. He will be instructed in the techniques of examining, treating and handling and caring for animals. There will be a certain number of formal lectures. Emphasis will be placed on actual participation by the student.

452-453-454. LARGE ANIMAL CLINICS. 3 hours credit each quarter.

457-458-459. SMALL ANIMAL CLINICS. 3 hours credit each quarter.

472-473-474. PATHOLOGICAL DIAGNOSIS. 3 hours credit each quarter.

462-463-464. CLINICAL SEMINAR. 1 hour credit each quarter. *Mr. Hoffman.*
Students will prepare and deliver reports on topics of their choice; usually in the form of clinical case reports, with a lecture on some aspect pertinent to the case. Reports are under clinical staff supervision and both faculty and students engage in discussions following presentation of the reports.

466. CLINIC PRECEPTORSHIP. 10-13 hours. Daily during clinic hours and on call at all times for a minimum of 10 weeks during the summer between the Third and Fourth year. *The Staff.*

PATHOLOGY AND PARASITOLOGY

Head: Sikes. Staff: Hayes, Jordan.

405-406-407. VETERINARY PARASITOLOGY. 13 hours. 405: Two lectures and one three-hour laboratory period. 406: Three lectures and two three-hour laboratory periods. 407: Three lectures, three hours of seminar and two three-hour laboratory periods. *Mr. Hayes* and *Miss Jordan.*
A study of the parasites of domestic animals, their economic importance in livestock production and public health. Included are studies on taxonomy, distribution, diagnosis, and control of parasitic protozoa, helminths, and insects. Specific therapeutic measures are also included where available.

425. General Animal Pathology. Three lectures and two double periods of histopathological laboratory. *Mr. Sikes.*

An introduction to pathology and the consideration of the phases of pathological processes including the reparative processes.

426. Systematic Animal Pathology. Three lectures and two double periods of histopathological laboratory. *Mr. Sikes.*

The application of general pathological processes to various body systems with emphasis on their clinical manifestations. The gross and microscopic study of neoplasms.

427. Special Animal Pathology. Three lectures and two double periods of postmortem laboratory. *Mr. Sikes.*

The pathology of specific infectious and nutritional diseases and instruction and practice in the proper postmortem techniques and evaluations.

461. Clinical Pathology. 4 hours. Three lectures and one three-hour laboratory period. *Miss Jordan.*

The course is designed to instruct the student in the performance of hematological, cytological, bacteriological, serological, urological, parasitological and histopathological examinations as an aid in the diagnosis of animal diseases. Emphasis is placed on the correlation of results with fundamental changes in diseases and clinical manifestations. Approved methods for preparing and submitting samples to the laboratory are considered.

GRADUATE COURSES

801. Pathology of Parasitic Diseases in Animals. Prerequisites: Veterinary Parasitology 405-406-407 and Pathology 425-426-427 or equivalent. *Mr. Sikes* and *Mr. Hayes.*

A study of pathologic alterations produced in animals. Work will include helminths, protozoa and arthropods.

802. Veterinary Pathology and Parasitology. Prerequisites: Pathology 801 or its equivalent. *Mr. Sikes* and *Mr. Hayes.*

A continuation of 801.

803. Veterinary Surgical Pathology. Prerequisites: Veterinary Pathology 425-426-427-461 or their equivalents. *Mr. Sikes.*

Studies are made on clinical indications for biopsy and the diagnosis of individual surgical cases.

805. Problems in Veterinary Pathology and Parasitology. Prerequisites: Pathology 425-426-427 or their equivalent. *Mr. Sikes* and *Mr. Hayes.*

Detailed studies are made of diseases of birds and mammals.

814, 815, and 816. Seminar in Veterinary Pathology and Parasitology. 1 hour each course. Prerequisites: Graduate standing in Veterinary Medicine or a closely allied field of interest. *The Staff.*

820-821. The Pathology of Nutritional Diseases of Animals. 10 hours. *Mr. Sikes.*

Detailed studies of gross and microscopic alterations of tissues, organs, and systems of animals and birds which have received excessive or deficient nutritive elements.

PHYSIOLOGY AND PHARMACOLOGY

Head: Piercy. Staff: Knapp, Kornfeld. Associate Staff: Cormier, Duncan, Sewell.

310. Physiology of Domestic Mammals. Four lectures and one three hour laboratory period. Prerequisites: Zoology 226 and Chemistry 260 (or equivalent). (Offered each Winter Quarter). *Mr. Knapp* and *Mr. Piercy.*

A general and comparative consideration of physiological phenomena with emphasis on body fluids, circulation, respiration, digestion and metabolism, renal function, endocrinology, and reproduction as related to farm animals. A course especially arranged for students majoring in animal, dairy, or poultry husbandry.

451. Physiological Chemistry. Four lectures and one two hour laboratory period. *Mr. Cormier.*

A survey of the fundamental biochemical processes which occur in the animal body.

452. PHYSIOLOGICAL CHEMISTRY. Four lectures and one two hour laboratory period. *Mr. Cormier.*

A continuation of Physiological Chemistry 451 with advanced study of the chemistry of physiological processes.

406-407-408. COMPARATIVE MAMMALIAN PHYSIOLOGY. 15 hours. 406-407: Four lectures or recitations and one two hour laboratory period each quarter. 408: Three lectures, three hours of seminar and one two hour laboratory. *Mr. Piercy* and *Staff.*

A comparative study of mammalian physiology relating consecutively to the nervous system, muscles, body fluids, circulation, respiration, digestion, the urinary system, nutrition, body heat, endocrinology and reproduction.

410. VETERINARY ENDOCRINOLOGY. 4 hours. *Mr. Kornfeld.*

A survey and study of endocrine functions.

430-431. VETERINARY PHARMACOLOGY. 7 hours. 430: Three lectures. 431: Three lectures and one two hour laboratory period. *Mr. Knapp.*

A study of essential pharmacological principles including mathematics, prescription writing, drug classification, pharmacodynamics.

432. VETERINARY PHARMACOTHERAPEUTICS. 3 hours. Fourth year veterinary curriculum. *Mr. Knapp.*

A study of pharmaceutical and biological preparations which places special emphasis upon modern therapeutics in veterinary medicine.

442. POISONOUS PLANTS. 2 hours. Two double periods of demonstrations, laboratory or field trips. *Mr. Duncan.*

A study of plants in the Southeastern United States that are poisonous to livestock with emphasis on their identification and distribution.

450. ANIMAL NUTRITION AND DEFICIENCY DISEASES. Prerequisite: Fourth year standing in the School of Veterinary Medicine. *Mr. Sewell* and *Mr. Jones.*

A detailed consideration of the relative values of different crops, feeds and products, and their use in meeting the nutritive requirements of the various classes of farm animals, including also diseases of nutritional origin with emphasis on deficiencies in naturally occuring feeds.

DIVISION OF THE ARMED SERVICES

Alvin Blocksom Biscoe, A.B., M.A., Ph.D., *Coordinator*
Carl Richard Hill, B.S., Colonel, USA, *P.M.S.&T.*
George Kenneth Crain, B.S.M.E., Colonel, USAF, *P.A.S.*

The division of the Armed Services is the organization which provides training in the Senior Division, Reserve Officers' Training Corps, at the University. It is composed of a Coordinator, who is a civilian official of the Institution and two departments of Instruction. The Department of Military Science and Tactics operates under Department of the Army Regulations in coordination with the University academic program. Through it, graduates may be commissioned second lieutenants in the Regular Army or Reserve of the United States Army. The Department of Air Science, under the directives of the United States Air Force and in coordination with the University, commissions graduates in the Regular Air Force or the Reserve of the United States Air Force.

The mission of the ROTC is the production of junior officers who have the qualities and attributes essential to their progressive and continued development as officers in the Army or the Air Force of the United States. All physically qualified freshman male students must enroll in and complete two years of basic ROTC with the exception of veterans, non-citizens, and those otherwise exempted. Those who have had basic course ROTC, senior division, and those veterans credited with the equivalent of two years basic ROTC training while in service, may apply and be considered for advanced (junior and senior class) ROTC, provided they have attained junior academic standing. Veterans who enter the University at freshman or sophomore level who desire a commission through Air Force ROTC must take the portion of the basic course which remains. Regulations of the Services require that ROTC and academic courses be taken at the same level concurrently. The courses of the Army and the Air Force are required to be given in sequence. It is desirable that those who expect to be selected for commissioning enter at the Fall Quarter if possible.

All freshman male students except veterans, non-citizens, those whose health would be adversely affected by such participation, and those otherwise exempted must enroll in the ROTC program and continue such enrollment until the requirements of the Basic Course are met. Students transferring from other institutions who were enrolled in the Senior Division ROTC at any time prior to such transfer are required to continue ROTC training to completion of the Basic Course. Such students will normally be required to continue in the service of prior enrollment. Students entering at sophomore or higher level without prior Senior Division ROTC, or equivalent, are not required to enroll in the ROTC program at this University. However, those who elect to enter either the Army or Air Force ROTC, Basic Course, must agree to complete both years in the course, and successful completion becomes a requirement for graduation. Failure to comply with enrollment and attendance requirements constitutes a violation of University regulations.

The selection of students for enrollment into Advanced ROTC in both departments is made on a quality basis. Limitations on the numbers to be enrolled are set by higher military authority. Selection within those established quotas is made on the basis of individual desire, over-all academic

achievement, campus leadership, military performance in the Basic Course, and demonstrated officer potential qualities and abilities.

Authority exists for transfer from the Army to the Air Force ROTC, and vice versa. Such transfers will be approved only when justified. If made before contract for the advanced course is signed, approval can be given by the PMS&T and PAS concerned. Thereafter, approval by higher Army and Air Force authority is necessary. In any case, the receiving service must be satisfied that the transferee has military experience which is a satisfactory equivalent for the ROTC period for which he is to be given credit by that service.

Special attention is given to the maintenance of high standards of conduct and academic achievement. The courses are focused on the development of individual leadership and a sense of responsibility for duty as a citizen reserve officer of the National Military Establishment.

National legislation provides for deferment from Selective Service of those ROTC students who are considered potential officer material. These deferments are subject to authorization and limitations imposed by the Department of Army, the Department of Air Force, and National Selective Service Headquarters. However, within the quotas authorized, selection of students for deferment is made by boards composed of Army personnel, Air Force personnel, and civilian academic representatives of the University. Selection is based on academic and military standing of the student. Once deferred, a student continues in that status as long as he continues to maintain satisfactory academic and military standing. Once a deferment has been withdrawn for lack of progress, it may not be reinstated. The purpose of this deferment is to allow a student to continue his University courses and be commissioned to serve as a member of the reserve component of the Army or Air Force. The period for which a student may be deferred and continue to be eligible for a commission covers twelve academic quarters. In case a student may require additional time above the twelve academic quarters to graduate, he is required to secure the approval of the PMS&T or the PAS. This approval is given in writing and will allow him to continue his academic work and military deferment for the period required after completing all ROTC instruction with continued eligibility for a commission. Students will be dismissed immediately and permanently if they decline (after consultation with appropriate ROTC and University officials) to fulfill the terms of their ROTC deferment agreements pertaining to undergraduate work at the institution.

Women students are invited to inquire at the Military Building in regard to obtaining a commission in the Women's Army Corps, Army Reserve, Women's Medical Service Corps, and the Army Nurse Corps, and at the Air Science Building concerning the Women's Air Force, AF Medical Service and AF Nurses Corps. Opportunities exist for women members of the graduating classes to apply for direct commissions in the WAC, Army Reserve, and in the WAF, Air Reserve. Upon entering active duty and completion of the Officers Course of the Service concerned, these women may apply for a commission in the Regular Army or Air Force. Women students may apply for Air Force ROTC training. This is given without obligation on the part of either the student or the Air Force and is for academic credit only.

For statements about fees, uniforms and textbooks see pages 84-85.

SUBSISTENCE ALLOWANCE

Students contracting to pursue the advanced courses are paid a monthly monetary allowance in lieu of subsistence at a daily rate equal to the value of the commuted ration, which for the fiscal year 1960 is 90 cents per day.

SUMMER CAMP

Students contracting to pursue the advanced courses are required to attend ROTC summer camp, normally between the two academic years of the advanced courses. Students attending this camp are messed and quartered, paid at the rate of a soldier or airman of the 1st grade, and given a travel allowance of 5c per mile from their homes to camp and return.

DEPARTMENT OF ARMY
MILITARY SCIENCE AND TACTICS

The first two years are known as the basic course and the second two years are known as the advanced course. Less than 25% of the entering basic students complete the requirements and are selected for admission to the advanced course. The men selected for Senior ROTC are those who are physically qualified and have maintained good academic standing and an attitude of cooperation and leadership.

Graduates of the Advanced Course are commissioned as 2d Lieutenants in the United States Army Reserve in the arm or service most appropriate to their interests and academic achievements consistent with the needs of the Army. Commissioned graduates will be called to active duty within twelve months after graduation and will serve in their commissioned status for a period from six months to two years depending upon prevailing requirements and circumstances. Graduates may be granted delay in reporting for active duty for graduate study in certain fields. A limited number of outstanding graduates are offered commissions in the Regular Army each year.

ARMY COURSES

1 a-b-c. Military Science and Tactics. 6 hours. First year basic course in General Military Science consists of two hours classwork and one hour of drill and outdoor instruction per week. The course includes leadership, drill and exercise of command; organization of the Army and ROTC; American military history; and individual weapons and marksmanship.

2 a-b-c. Military Science and Tactics. 6 hours. Second year basic course in General Military Science consists of two hours classwork and one hour of drill and outdoor instruction per week. The course includes leadership, drill and exercise of command, cartographic interpretation, the Army's Role in National Security, and basic tactics.

350 a-b-c. Military Science and Tactics. 9 hours. The first year advanced course in General Military Science consists of four hours classwork and one hour of drill and outdoor classwork per week. The course includes leadership, drill, and exercise of command; small unit tactics and communications; organization, function and mission of the arms and services; and military teaching methods.

351 a-b-c. MILITARY SCIENCE AND TACTICS. 9 hours. The second year advanced course in General Military Science consists of four hours classroom work and one hour of drill and outdoor instruction per week. The course includes leadership, drill and exercise of command; logistics; operations; military law and administration and personnel management; and service orientation.

DEPARTMENT OF AIR SCIENCE

The first two years are known as the basic course and the second two years are known as the advanced course. Normally, only one out of approximately every nine entering students is selected for admission to the advanced course under a numerical quota limitation. Selection for the advanced course is based on physical suitability and interest in flight training together with achievement records of academic ability and observed leadership traits. It is expected that the majority of those selected for the advanced course will be able successfully to complete one year of flying training in officer grade perior to four years of active service as an officer of the Air Force. After entering active duty, each reserve officer may apply for a regular Air Force commission. Just prior to being graduated and commissioned, each student is given a service specialty. This specialty is selected to fit most closely the student's interest, aptitude and academic training. This specialty controls the area of assignment and field of specialization, or, for flying officers, as an additional duty to flying activities. Its relative importance increases with years of service, until flying duties become secondary to these other service specialties.

Normally, commissioned graduates are scheduled to be called to active duty from one to twelve months after graduation. Flying training requires approximately one year and is followed by four years of service duty. Those commissioned in non-flying categories (e.g.: meteorology, administration, Chaplain) have a three-year service commitment. Those who wish to take graduate training in certain fields such as physics, nuclear chemistry, and others for which there is a critical need, may request a delay in call to active duty. There is opportunity for those graduates desiring training in meterology, nuclear physics, law, certain languages and similar fields, to request a delay in active duty date for civilian institution graduate training, some up to and including the Masters level.

Members of the senior AF ROTC class who apply themselves may be designated Distinguished Air Force ROTC Cadet. Upon graduation these students may be designated Distinguished Air Force ROTC Graduates, which entitles them to special consideration for Regular Air Force Commissions.

AIR FORCES COURSES

5a-b-c. AIR SCIENCE. 6 hours. First year basic course in Air Science consists of two hours classroom work and one hour of drill and outdoor instruction per week. Classroom work consists of:

5a. FOUNDATIONS OF AIR POWER—1. A general survey of air power designed to provide the student with an understanding of the elements and potentials of air power to include: fundamentals of air power; military air power of the world; military research and development; and air vehicle industries, airlines, and airways.

5b. FOUNDATIONS OF AIR POWER—1. A general survey of aeronautical science to include: general aviation; elements of an aircraft; aerodynamics; guidance, control, and navigation; and propulsion systems.

5c. FOUNDATIONS OF AIR POWER—1. A general survey of space flight, military instruments of national security, and professional opportunities in the United States Air Force.

(These courses, 5a-b-c, are given in sequence).

6 a-b-c. AIR SCIENCE. 6 hours. Second year basic course in Air Science consists of two hours of classroom work and one hour of drill and outdoor instruction per week. Classroom work consists of study of:

6a. FOUNDATIONS OF AIR POWER—2. A survey of the development of aerial warfare with emphasis on principles of war, concepts of employment of forces, and changing weapons systems.

6b. FOUNDATIONS OF AIR POWER—2. Treatment of aerial warfare is undertaken to include targets, weapons, aircraft and missiles.

6c. FOUNDATIONS OF AIR POWER—2. Treatment of aerial warfare is continued to include bases and facilities, aerial and space operations.

(These courses, 6a-b-c, are given in sequence)

355 a-b-c. AIR SCIENCE. 9 hours. First year advanced course in Air Science consists of four hours of classroom and one hour of drill and outdoor instruction per week. The classroom work consists of the study of leadership doctrine, staff organization and functions, communicating, problem solving techniques, leadership principles and practices, and the military justice system.

356 a-b-c. AIR SCIENCE. 9 hours. Second year advanced course in Air Science consists of four hours of classroom work and one hour of drill and outdoor instruction per week. The classroom work consists of the study of Weather, Navigation, Career Guidance, Moral Responsibilities of Air Force Leaders, Military Aviation and Evolution of Warfare, Military Aspects of World Political Geography, and Briefing for Commissioned Service. In addition, practice in actual evaluation of lower class cadets through service on interview and other rating boards is given as a substitute for at least one quarter of drill.

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